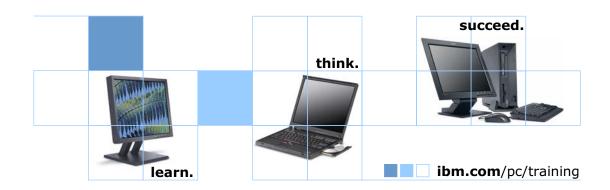


Personal Systems Reference IBM ThinkPad Notebooks

January 2005 - Version 286



	Type-model Proces	ssor GHz Mei	emory Screen		Optical i UltraBas	n ThinkP e X3 UltraB		CDC: modem Bluetooth™					ol (G) Avail TAA date
<	2672-27U Pentiur 2672-2BU Pentiur 2672-N7U Pentiur 2672-P7U Pentiur 2672-PBU Pentiur	mM 1.4 256 mM 1.6 256 mM 1.6 256	66MB 12.1" XGA 66MB 12.1" XGA 66MB 12.1" XGA	20GB 40GB 40GB	None None None	Optional Optional Optional Optional Optional	Open; wireless up *Intel 11b Wi-Fi ³² Open; wireless up Open; wireless up	Modem g Modem g Modem	Yes 1 Yes 1 Yes 0	10/100 10/100 Gigabit	XP Pro XP Pro XP Pro XP Pro	E W G W	Oct 03 Oct 03 Oct 03 Oct 03 Oct 03
	2672-PUU Pentiur 2672-PXU Pentiur 2672-REU Pentiur 2672-RHU Pentiur	mM 1.6 256 mM 1.6 256 mM 1.6 512 mM 1.6 512	56MB 12.1" XGA 56MB 12.1" XGA 2MB 12.1" XGA 2MB 12.1" XGA	40GB 40GB 40HS 40HS	None None None None	Optional Optional Optional Optional	*Intel 11b Wi-Fi 11a/b/g Wi-Fi ³² Cisco® 802.11b ³² *Intel 11b Wi-Fi 11a/b/g Wi-Fi ³²	Modem Mod/Blue Mod/Blue	Yes (Yes (Yes (Yes (Yes (Yes (Yes (Yes (Gigabit Gigabit Gigabit Gigabit	XP Pro	W W G W W	Oct 03 Oct 03 Oct 03 Oct 03
	2672-NYU Pentiur Positioning		66MB 12.1" XGA Obility in a versati			Optional	Open; wireless up	g Modem	Yes 1				A Dec03
	US Govt (TAA)⁵ Processor L2 cache	NYU: US Go Intel® Pention enhanced In	overnment mode um® M Processontel SpeedStep™ e (at processor s	el (Trad or 1.4 o techno	le Act Ag r 1.6GH logy¹ an	reement-c z with	compliant)		- Mic	ows XP	SOFTWA Profess Windows al ²⁰	ional	
	Memory Diskette drive	memory spe std memory	eed to 266MHz) in one socket / c	non-pa	arity / CL ket avai	_2.5 / two 2 lable	R1 (memory controlle 200-pin SO-DIMM so	ckets /	(in h	nidden p	k Recove protected		
	None standard / use optional Ultrabay™-based (inX3) or USB-based diskette drive None standard / optional USB-based optical, or optional Ultrabay 2000-based optical removable from optional X3 UltraBase, ThinkPad Dock, or ThinkPad Dock IISupports Ultrabay 2000 devices in standard X3 UltraBase (or optional ThinkPad Dock II) 20GB (4200 rpm), 40GB (4200 rpm), or 40GB (HS 5400 rpm), 9.5mm, ATA-100 / removable and upgradable / 9.5mm high bay									ess Cor be Rea I Rapid	nnections der Restore™ Virus (OE ^M	Ultra	on)
												tor ^{TM,15}	
	Keyboard ThinkLight™	Access IBM soft dome Tr Illuminates to	l button / palm re rackPoint cap / s the keyboard to i	st / Tra ships w mprove	ckPoint [®] ith class visibility	, "Presś-to ic dome ar y in low-ligh		roll Bar ¹³ / t cap	SoftSysClie	tware D tem Mig	or Agent elivery As gration As crity Softw p)	sistant	
	Dimensions ³ Travel weight ² Case material Battery - type	with X3 Ultra with battery: Color: black	aBase and optic ::3.6 lb (1.65kg); k; All: titanium	al: 10.8 with X: compo	8" x 8.9" <i>3 UltraBa</i> site in th	x 2.0-2.3"; ase and op ne top cove	n x 223mm x 24.9-30 273 x 227 x 51-58mi tical: 5.6 lb (2.54kg) er / magnesium alloy attery on base (for tw	m bottom case	- Loti	us® Sma	not includ artSuite® N s® Stand-a	/lillénni	
	Battery - life ¹⁰	supports Ult	trabay battery or	option	al 6-cell	battery in λ	K3 UltraBase (for two L <i>ife Battery:</i> up to 10.	batteries)			k Pad X3 (X3 UltraB		
	Architecture Media slice	82801DBM I Low Pin Cou PCI bus 2.23 ext expansio	unt (LPC) interfa 32-bit, 33MHz (R on) / LPC bus 33I	troller H ce, USI icoh® F MHz (P	Hub (AT/ B [Blueto R5C522 (C87392	A-100 EIDE ooth]) / Inte CardBus/1 Super I/O)	E, PCI bus, ethernet Nel 82802AC Firmware 394 combo controller	Hub/	most • Opt DVI • Opt	most Ultrabay 2000 options: Optional battery, CD-ROM, CD-RW DVD-ROM, Zip 250MB, Combo Optional HDD adapter for 2nd disk Ultrabay Plus-compatible			CD-RW, nbo
	Compact Flash slot	Compact FI One Type II IEEE 1394 (I Two USB (ve	/ CardBus 32-bi (FireWire) port (rersion 2.0) / exte	⊦ Type t / PCM 4-pin) ernal Di	II / suppo ICIA 2.1 B-15 mo	orts optiona / integrate nitor / infra	al IBM Microdrive™ d door ired (4Mbps) / RJ-11 (al, keyboard, or mou		• Second HDD Adapter for Ultrabay 2000 08K6068				22P6991 Itrabay 08K6068
	Mini PCI Wireless upg ³⁶ 11b Wi-Fi ³²	One Mini PC Some: wirel Some: 11b \ 802.	CI type III slot (Co less upgradable Wi-Fi ³² wireless ⁴ .11b, Intel 82531	ommun with wi , Mini P chipset	ications reless M CI, Intel	Bay) / cust lini PCI opt PRO/Wirel	less 2100 Network Co		 Ultrabay 2000 Li-lon battery 02K664 Enhanced Drive Adapter for 			08K9603 02K6646 r 73P3268	
	11a/b/g Wi-Fi ³² CDC Modem Bluetooth™ Ethernet	One Communications Daughter Card (CDC) socket / customer accessible 56K ⁶ V.90 (V.92-designed ²⁹) modem in CDC / Agere® chipset Some: Bluetooth wireless technology / in CDC (with modem) Some: 10/100 ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / mono speaker / 0.5 watt / volume up, down, mute buttons / internal mic / microphone input jack (pink) / headphone jack (green) / mic in (blue) [all 3.5mm]							Bay for X30 battery (same as X31) Other features: Second battery support (for Ultrabay battery or second 6-cell battery) Stereo speakers (1 watt)				Ultrabay tery)
	Audio support								SeriPS/Ana	ial and p 2 mous alog DB-	·15 monite	orts or port	
	Security Security chip	authentication	Ided Security S on / local file end	ubsyst ryption	t em 2.0 3 / enhan	³/hardwar ces VPN s	visor password / sec e key storage / multi- ecurity ¹⁶ / TCG-comp	factor lliant	• Ethe	ernet po ractable	ort (Ver 2 ort and mo e feet; 1.4	dem po	ort
	Limited warranty ¹² 128 MB PC2700 I 256 MB PC2700 I 512 MB PC2700 I 1GB PC2700 D 40GB HS Hard Di 80GB HS Hard Di IBM 11a/b/g Wire IBM 11a/b/g Wire Intel PRO/Wireles IBM M400 Project	DDR-SDRAM DDR-SDRAM DDR-SDRAM R-SDRAM C isk 9.5mm (54 isk 9.5mm (54 less CardBus less Mini PCI ss 2200BG Mi	M CL2.5 SOD 37 M CL2.5 SOD 37 M CL2.5 SOD 37 M CL2.5 SOD 37 L2.5 SOD 37 400 rpm) 08 400 rpm) 09 5 Adapter 37 I Adapter 37 lini PCI 73	P9828 P9830	IBM Th ThinkP ThinkP ThinkP IBM US ThinkP ThinkP ThinkP Service	aninkPad X3 Pad Port Re Pad Mini Do Pad Dock III PSB Portable Pad X30 Se Pad V30 Sel Pad Ultrapo Pad Ultrapo		e 46P7912 74P6733 287810U 287710U 05K9276 cell) 02K7039 tery02K7041 er 02K6880 30L9190	Asset chip PC 20 ACPI CIM a IBM F pro Intern 24 ho sup	p acces 001-con 1.0b ar and DMI Rapid R stect sof national pur x 7 d oport du	(system-s sed over apliant ad 2.0-cor	networ mpliant pliant tra avai age and Service ree wai varrant	lable to I data e ¹⁷ rranty y ¹² via

Type-model Proce	ssor GHz Memory	Screen Dis	Optical i	n ThinkPa se X3 UltraBa			/ Sec Ethernet WH (W) Gbl (G) Avail chip planar Preload Entry (E) date
2672-38U Pentiu 2672-3KU Pentiu 2672-3UU Pentiu 2672-5KU Pentiu 2672-5KU Pentiu 2672-7KU Pentiu 2672-4UU Pentiu 2672-5UU Pentiu 2672-5ZU Pentiu	m® M 1.5 256MB m M 1.5 256MB m M 1.5 256MB m M 1.7 256MB m M 1.7 256MB m M 1.7 512MB m M 1.7 512MB m M 1.7 256MB m M 1.7 256MB m M 1.7 256MB	12.1" XGA 30G 12.1" XGA 30G 12.1" XGA 30G 12.1" XGA 40G 12.1" XGA 40G 12.1" XGA 40G 12.1" XGA 40H 12.1" XGA 40H 12.1" XGA 40G	B ⁸ None B None B None B None B None S None B None B None B None	Optional	Open; wireles upg *Intel 11b Wi-Fi ³² IBM 11b/g ³² Open; wireless upg *Intel 11b Wi-Fi *Intel 11b Wi-Fi IBM 11b/g IBM 11b/g 11a/b/g Wi-Fi ³²	Modem Modem Modem Modem Modem Modem Modem	Yes 10/100 XP Pro Entry Feb 0/2 Yes 10/100 XP Pro Entry Feb 0/2 Yes 10/100 XP Pro Entry Feb 0/2 Yes Gigabit XP Pro W G Feb 0/2 Yes Gigabit XP Pro W G Feb 0/2 Yes Gigabit XP Pro W Feb 0/2
Positioning Processor L2 cache Memory		I Processor 1.5 leedStep™ techrocessor speed I / 2GB max ⁷ / Po 266MHz) / non-	or 1.7GH nology¹ an) / ECC C2700 33 parity / Cl	z with d 400MHz s 3MHz DDR L2.5 / two 2			SOFTWARE ¹⁴ Windows XP Professional - Microsoft® Windows® XP Professional ²⁰ \$\times Disk-to-Disk Recovery (in hidden protected area)
Diskette drive Optical Ultrabay™ 2000 Disk Display Graphics controller	None standard / oremovable from or Ultrabay 2000 dev 30GB (4200 rpm) removable and up 12.1" (308mm) X ATI® Mobility RA	ptional USB-baptional X3 Ultra vices in standard, 40GB ⁸ (4200 rg gradable / 9.5ml GA (1024x768) DEON® / AGP	sed optica Base, Thir X3 Ultrate om), or 40 m high bay TFT colo	al, or optionankPad DockBase (or optional) Base (or optional) Base (HS 540) r / Active M DDR1 (DE	R-SDRAM)	ed optical IISupports III) -100/	Preloaded • Access IBM • Access Connections • Adobe Reader • IBM Rapid Restore™ Ultra • Norton AntiVirus (OEM edition) • PC-Doctor™ • ThinkPad Utilities • IBM Update Connector™.15
ThinkLight™ Dimensions³ Travel weight² Case material Battery - type	Standard-size ²⁶ k Access IBM butto soft dome TrackF Illuminates the ke without X3 UltraBase with X3 UltraBase with battery: 3.6 ll Li-lon 6-cell / intel supports Ultrabay	eys / 97% size on / palm rest / Toint cap / ships yboard to improase: 10.7" x 8.8 and optical: 10 o (1.65kg); with titanium compligent / supports / battery or optic	of T Series rackPoint with class ve visibilit. "x.98-1.2" x.98-1.2 w.8.9" x.3.0 UtraB. cosite in the opt External 6-cell	s / 87-key / * ", "Press-to sic dome an y in low-ligh 19"; 273mm x 2.0-2.3"; ase and op he top cove nded Life Ba battery in X	n x 223mm x 24.9-30 273 x 227 x 51-58mi tical: 5.6 lb (2.54kg) or / magnesium alloy attery on base (for two 3 UltraBase (for two	n stoke / roll Bar ¹³ / t cap .2mm m bottom case to batteries)	Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Media slice Compact Flash slot PC Card Std slot IEEE 1394 Ports	Intel 855PM chips 82801DBM ICH4- Low Pin Count (L PCI bus 2.2 32-bit ext expansion) / Li Optional X3 Ultra Compact Flash s One Type II / Car IEEE 1394 (FireV Two USB (version	set / 82855PM N M I/O Controlle PC) interface, U 33MHz (Ricoh® PC bus 33MHz (B Base media sli slot / 1 CF+ Typ dire) port (4-pin n 2.0) / external	Memory Cor r Hub (AT, SB [Blueton R5C522 PC87392 ce (see right e II / supp MCIA 2.1) DB-15 mo	ontroller Hu A-100 EIDE ooth]) / Inte CardBus/13 Super I/O) ght side) orts optiona / integrated	F, PCI bus, ethernet № 1 82802AC Firmware 394 combo controller al IBM Microdrive™	MAC, Hub / , Mini PCI, (modem) /	IBM ThinkPad X3 UltraBase™ Right bay of X3 UltraBase supports most Ultrabay 2000 options: • Optional battery, CD-ROM, CD-RW DVD-ROM, Zip 250MB, Combo • Optional HDD adapter for 2nd disk • Ultrabay Plus-compatible Ultrabay 2000 accessories: • CD-RW/DVD Combo IV Ultrabay 2000 22P699 • Second HDD Adapter for Ultrabay
Wireless antenna Mini PCI Wireless upg ³⁶ 11b Wi-Fi ³² IBM 11b/g ³² 11a/b/g Wi-Fi ³² CDC Modem Bluetooth TM Ethernet Audio support Security Security chip Limited warranty ¹²	UltraConnect™ ar One Mini PCI type Some: wireless u Some: 11b Wi-Fi 802.11b, I Some: IBM 11b/g Some: 11a/b/g W One Communicat 56K ⁶ V.90 (V.92-c None Some: 10/100 eth Some: Gigabit Eth Soft audio / ICH A mono speaker / 0 microphone input Power-on passwo IBM Embedded 3 authentication / Ic	itenna built into te III slot (Commo pgradable with 132 wireless4, Minimtel 82531 chips Wi-Fi32 wireless4, Itons Daughter Clesigned 139 model ernet on system cret on system (C97 controller / .5 watt / volume jack (pink) / head of decurity Subsycal file encryptic	he display unications wireless N PCI, Intel et Mini PCI, A ard (CDC) em in CDC board / In bioard / In DirectSoi up, down, adphone ja isk passw stem 2.03 on / enhan	cover for operation of the cover for operation operation of the cover for operation operation of the cover for operation o	ptimal wireless signal omer upgradeable ions ess 2100 Network Considerable AR5004G chipset R5001X+ chipset estomer accessible hipset (Physical lay P chipset (MAC/PHY et / AD1981B AC97 of the considerable in the chipset (MAC/PHY et / AD1981B AC97 of the considerable in the considerable	reception onnection ver) / PXE) / PXE codec / omm] urity keyhole factor liant	2000 08K606 ThinkPad Removable Diskette Driv 08K960 Ultrabay 2000 Li-Ion battery02K664 Enhanced Drive Adapter for Ultrabay 2000 73P326 X3 UltraBase bottom contains: Bay for X30 battery (same as X31) Other features: Second battery support (for Ultrabay battery or second 6-cell battery) Stereo speakers (1 watt) Security keyhole, UltraBase lock Serial and parallel ports PS/2 mouse port
256 MB PC2700 I 512 MB PC2700 DI 1GB PC2700 DD IBM USB 2.0 Port 40GB HS Hard D 80GB HS Hard D IBM 11a/b/g Wire IBM 11a/b/g Wire Intel PRO/Wireles IBM M400 Projec	isk 9.5mm (5400 rp isk 9.5mm (5400 rp less CardBus Adap less Mini PCI Adap ss 2200BG Mini PC	.5 SOD 31P98; .5 SOD 31P98; SOD 31P98; 22P916 om) 08K98; om) 09N427 oter 31P910; tter 31P970; Cl 73P280; 0037A0	30 ThinkF 32 ThinkF 34 ThinkF 33 IBM U: 66 ThinkF 31 ThinkF 91 Service 11 Service 14 Other	Pad Port Repad Mini Do Pad Mini Do Pad Dock II SB Portable Pad X30 Ser Pad Ultrapor Pad Ultrapor Pac Syr Pt Options at ik	ck Diskette Drive	74P6733 287810U 287710U 05K9276 cell) 02K7039 tery02K7041 er 02K6880 30L9190 69P9201 ssories	PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant IBM Rapid Restore Ultra available to

 ≥284-68 U Pentium M 1.5 256MB 12.1*XGA 20GB Cptional Open, wireless upgi¹⁸ Modem Yes 10/100 X 2884-61.U Pentium M 1.5 256MB 12.1*XGA 20GB DVD X3 UtraBase + thriel 11 bW-Fi Modem Yes 10/100 X 2884-61.U Pentium M 1.5 256MB 12.1*XGA 30GB Ombot 2884-65U Pentium M 1.5 256MB 12.1*XGA 30GB Ombot 2884-65U Pentium M 1.7 256MB 12.1*XGA 40GB Optional **Intel 11 bW-Fi Modem Yes 10/100 X 2884-65U Pentium M 1.7 256MB 12.1*XGA 40GB Optional **Intel 11 bW-Fi Modem Yes (Gigabi X 2884-65U Pentium M 1.7 256MB 12.1*XGA 40GB Optional **Intel 11 bW-Fi Modem Yes (Gigabi X 2884-65U Pentium M 1.7 256MB 12.1*XGA 40GB Optional **Intel 11 bW-Fi Modem Yes (Gigabi X 2884-65U Pentium M 1.7 256MB 12.1*XGA 40GB Optional **Intel 11 bW-Fi Modem Yes (Gigabi X 2884-65U Pentium M 1.7 256MB 12.1*XGA 40GB Optional **Intel 11 bW-Fi Modem Yes (Gigabi X 2884-65U Pentium M 1.7 256MB 12.1*XGA 40GB Optional **Intel 11 bW-Fi Modem Yes (Gigabi X 2884-65U Pentium M 1.7 256MB 12.1*XGA 40GB Optional **Intel 11 bW-Fi Modem Yes (Gigabi X 2884-65U Pentium M 1.7 256MB 12.1*XGA 40GB Optional **Intel 11 bW-Fi Modem Yes (Gigabi X 2884-65U Pentium M 1.7 256MB 12.1*XGA 40GB Optional **Intel 11 bW-Fi Modem Yes (Gigabi X 2884-65U Pentium M 1.7 256MB 12.1*XGA 40GB Optional **Intel 11 bW-Fi Modem Yes (Gigabi X 2884-65U Pentium M 1.7 256MB 12.1*XGB max 1.1 256			
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Processor Intel® Pentitum® Processor 1.5 of 1.7 GHz with enhanced fulled SpeedStep® technology and 400MHz system bus 1MB / on die (at processor speed) / ECC 250MB or 57 EMB std / 260 max / PcZr00 a 33MHz DDR1 (memory controller limits standard with some post of 1.2 Std memory in one socket one socket available Doubletted drive DVD Some DVD-ROM/D-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive DVD Some DVD-ROM/D-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive DVD Some DVD-ROM/D-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive DVD Some DVD-ROM/D-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive DVD Some DVD-ROM/D-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive DVD Some DVD-ROM/D-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive DVD Some DVD-ROM/D-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive DVD Some DVD-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive DVD Some DVD-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive DVD Some DVD-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive DVD Some DVD-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive DVD Some DVD-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive DVD Some DVD-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive DVD Some DVD-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive DVD Some DVD-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive DVD Some DVD-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive Some DVD-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive Some DVD-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive Some DVD-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive Some DVD-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive Some DVD-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive Some DVD-ROM / 164.01 MJz Assay (mx 4) or USB-based diskette drive Some DVD-ROM / 164.01 MJz Assay (mx 4) or USB-bas	00 XP Pro Feb 2004 00 XP Pro Feb 2004 00 XP Pro Feb 2004 00 XP Pro Feb 2004 00 XP Pro Feb 2004 abit XP Pro Feb 2004 abit XP Pro Feb 2004 abit XP Pro Feb 2004 abit XP Pro Feb 2004		
enhanced Intel Speed(Step** technology* and 400MHz system bus IMB / on tile (at processor speed) / ECC 256MB or \$12MB std / 26B max / 'PC2700 333MHz DDR1 (memory controller limits speed to 260MHz) / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / and memory in one socket / one socket available Diskette drive None standard / use optional Ultrabay #2000 Combo Some: DND-ROM/CD-RW/ 165/10X24/363** speed / removable from Ultrabay #2000 Disk / 20GB** (4200 rpm), 30GB (4200 rpm), or 40GB (4200 rpm or H5 5400 rpm), 9.5mm, ATA-100 / removable, upgradable / 9.5mm high bay Display 1.21** (308mm) X6A (1024/768) *TFT color / Active Matrix / 150 nits Graphics controller AT1** Mobility R ADEON** / AGP 4.4 / 14BB DDR1 (DDR. SDRAM) Graphics controller AT1** Mobility R ADEON** / AGP 4.4 / 14BB DDR1 (DDR. SDRAM) Graphics controller AT1** Mobility R ADEON** / AGP 4.4 / 14BB DDR1 (DDR. SDRAM) Graphics controller AT1** Mobility R ADEON** / AGP 4.4 / 14BB DDR1 (DDR. SDRAM) Graphics controller AT1** Mobility R ADEON** / AGP 4.4 / 14BB DDR1 (DDR. SDRAM) Graphics controller AT1** Mobility R ADEON** / AGP 4.4 / 14BB DDR1 (DDR. SDRAM) Graphics controller AT1** Mobility R ADEON** / AGP 4.4 / 14BB ADR1 (DDR. SDRAM) Frotessional** FinkLight** ThinkLight** ThinkLight** ThinkLight** Travel weight* Case material Battery - life** Up 10 5.5 hrs. with std battery and optional Extended Life States on the standard of the state of the standard Life States on the standard Life States (Life States) Architecture Media slice Decking Station Media slice Decking Station Compact Flash slot of Compact Flash slot / 1 CF+ Type III / 1/1 life States (Life States) Mini PCI Wireless unterna Wireless anterna Mini PCI Wireless anterna Wireless anterna Mini PCI Wireless anterna	WARE ¹⁴		
DVD Some: DVD-ROM/CR-W1/6X/10X/24X/8X* speed / removable from Ultrabay 2000 of X3 Some: DVD-ROM/CR-W1/6X/10X/24X/8X* speed / removable from Ultrabay 2000 spents Ultrabay 2000 devices in sid or opt X3 UltraBase (or opt ThinkPad Dock II) 2GBB* (2200 pm.) 30GB (2200 pm.) 40GB (2200 pm.) 40GB (2200 pm.) 40GB (2200 pm.) 30GB (2200 pm.) 40GB (2200 pm.) 4	dows® XP ecovery		
Graphics external External monitor support via analog DB-15 connector / up to 1280x1024x16.7M at 85Hz keyboard Standard-size ²⁶ keyb, 97% size of 15 Series / 87 key / 18.5mm pitch; 2.5mm stoke / Access IBM button / palm rest / TrackPointe*, "Press-to-Select," Internet Scroll Bar¹¹ / Soft dome TrackPointe ap / ship key 13.5mm pitch; 2.5mm stoke / Access IBM button / palm rest / TrackPointe*, "Press-to-Select," Internet Scroll Bar¹¹ / Soft dome TrackPointe ap / ship key 13.5mm pitch; 2.5mm stoke / Access IBM button / palm rest / TrackPointe*, "Press-to-Select," Internet Scroll Bar¹¹ / Soft dome TrackPointe ap / ship key 13.5mm pitch; 2.5mm stoke / Access IBM button / palm rest / TrackPointe*, "Press-to-Select," Internet Scroll Bar¹¹ / Soft dome TrackPointe ap / soft dome and soft rim TrackPointe and policial soft in the soft of the story of the standard policial soft in the soft of the story of the standard policial soft in the soft of the story of the standard policial soft in the story of the standard policial soft in the story of the standard policial soft in the supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (Controller Hub (ATC-Hou EIDE, PC) bus, set palm (PC) bus 2.2 32-bit, 33MHz (PC87392 Super I/O for infrared (dock-based diskette, serial, parallell) some: X3 UltraBase medial slice (see right side) policial Extended or IEEE 1394 (Frewire) port (4-pin) Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / Some: w	ore™ Ultra		
InterVideo WinDVD (Keyboard Standard-size® keys / 97% size of T-Series / 87-key / 18.5mm pitch; 2.5mm stoke / Access IBM button / palm rest / TrackPoints", "Press-to-Select," Internet Scroll Bar¹ / Soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoints", "Press-to-Select," Internet Scroll Bar¹ / Soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoints", "Press-to-Select," Internet Scroll Bar¹ / Access IBM button / palm rest / TrackPoints", "Press-to-Select," Internet Scroll Bar¹ / Soft dome and soft rim TrackPoints of the soft control of the soft cap /			
Dimensions* with X3 UltraBase and optical: 10.8" x8.9" x.98-1.9"; 273mm x 223mm x 24.9-30.2mm with X3 UltraBase and optical: 10.8" x8.9" x.2.0-2.3"; 273 x 227 x 21-5.58mm rate with battery; 3.6 lb (1.65kg); with X3 UltraBase and optical: 5.6 lb (2.54kg) color: black; All: titanium composite in the top cover / magnesium alloy bottom case latery - life to 1.6 cell / intelligent / supports opt Extended Life Battery on base (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries) clusters with the X3 UltraBase (for two batteries) supports Ultrabay battery or optional 6-cell battery in X3 UltraBase (for two batteries) clusters with X3 UltraBase (for two batteries	DVD (combo, DVD) d DLA (combo model)		
Case material Battery - type	ry Assistant on Assistant		
Architecture Intel 855PM chipset / 82855PM Memory Controller Hub (MCH-M) / 22801DBM ICH4-M //O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, Low Pin Count (LPC) (standard with som interface, USB [Bluetooth]) / Intel 82802AC Firmware Hub / PCI bus 2.2 32-bit, 33MHz (Ricoh* R5C522 CardBus/1394 combo controller, Mini PCI, ext expansion) / LPC bus 33MHz (PC87392 Super I/O for infrared [dock-based diskette, serial, parallel]) Media slice Some: X3 UltraBase media slice (see right side) Docking Station Compact Flash slot Compact Flash slot / 1 CF+ Type II / supports optional IBM Microdrive™ Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / parallel / IEEE 1394 (FireWire) port (4-pin) Mini PCI Wireless antenna Wireless upg ³⁸ 11b Wi-Fi²² wireless*, Mini PCI, Intel PRO/Wireless 2100 Network Connection 802.11b (Communications Bay) / Oustomer upgradeable Some: wireless upgradable with wireless Mini PCI options Some: 101/100 ethernet on systemboard / Intel 8256ZEZ chipset (physical layer) / PXE Some: 101/100 ethernet on systemboard / Intel 8256ZEZ chipset (MAC/PHY) / PXE Some: 101/100 ethernet on systemboard / Intel 8256ZEZ chipset (MAC/PHY) / PXE Some: 101/100 ethernet on systemboard / Intel 8256ZEZ chipset (MAC/PHY) / PXE Some: 101/100 ethernet on systemboard / Intel 8256ZEZ chipset (MAC/PHY) / PXE Some: 101/100 ethernet on systemboard / Intel 8256ZEZ chipset (MAC/PHY) / PXE Some: 101/100 ethernet on systemboard / Intel 8256ZEZ chipset (MAC/PHY) / PXE Some: 101/100 ethernet on systemboard / Intel 8256ZEZ chipset (MAC/PHY) / PXE Some: 101/100 ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE Some: 101/100 ethernet on systemboard / Intel 8256ZEZ chipset (MAC/PHY) / PXE Some: 101/100 ethernet on systemboard / Intel 8256ZEZ chipset (MAC/PHY) / PXE Some: 101/100 ethernet on systemboard / Intel 8256ZEZ chipset (MAC/PHY) / PXE Some: 101/100 ethernet on systemboard / Intel 8256ZEZ chipset (MAC/PHY) / PXE Some: 101/100 ethernet on systemboar	iite® Millennium and		
IEEE 1394 (FireWire) port (4-pin) Two USB (version 2.0) / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / parallel / IEEE 1394 (4-pin) / no serial, keyboard, or mouse ports Wireless antenna Mini PCI Wireless upg ⁸⁵ UltraConnect™ antenna built into the display cover for optimal wireless signal reception One Mini PCI type III slot (Communications Bay) / customer upgradeable Some: 11b Wi-Fi³² Some: 11b Wi-Fi³² wireless ymini PCI, Intel PRO/Wireless 2100 Network Connection 802.11b, Intel 82531 chipset CDC Modem Sternet Some: IBM 11b/g Wi-Fi³² wireless⁴, Mini PCI, Atheros™ AR5004G chipset One Communications Daughter Card (CDC) socket / customer accessible One Communications Daughter Card (CDC) socket / customer accessible Some: Gigabit Ethernet on systemboard / Intel 82562E chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE Some: Gigabit Ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE Audio support Security Secur	some models) ItraBase supports 00 options: r, CD-ROM, CD-RW, 250MB, Combo dapter; for 2nd disk		
Mini PCI Wireless upg³6 11b Wi-Fi³² Some: wireless upgradable with wireless Mini PCI options Some: 11b Wi-Fi³² Some: 12b Wi-Pi³² Some: 12	 Second HDD Adptr for Ultrabay 		
B802.11b, Intel 82531 chipset Some: IBM 11b/g Wir-Fi³²² wireless⁴, Mini PCI, Atheros™ AR5004G chipset One Communications Daughter Card (CDC) socket / customer accessible Modem Ethernet Some: 10/100 ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82560EP chipset (MAC/PHY) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Security in the some development on the part of the part o	08K9603		
Ethernet Some: 10/100 ethernet on systemboard / Intel 82562EZ chipset (physical layer) / PXE Some: Gigabit Ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / mono speaker / 0.5 watt / volume up, down, mute buttons / internal mic / microphone input jack (pink) / headphone jack (green) / mic in (blue) [all 3.5mm] Power-on password / dual hard disk password / supervisor password / security keyhole IBM Embedded Security Subsystem 2.0³³ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security¹6 / TCG-compliant Limited warranty¹² 1 year - EasyServ™.¹³ onsite pickup and delivery / service upgrades²² avail 156 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9830 Second battery suppleation of code / stereo speakers (1 w Security keyhole on USB port (Ver 2 ThinkPad S3 UltraBase media slice on thinkPad S3 Ultr	om contains:		
mono speaker / 0.5 watt / volume up, down, mute buttons / internal mic / microphone input jack (pink) / headphone jack (green) / mic in (blue) [all 3.5mm] Power-on password / dual hard disk password / security keyhole, Ulti- Security chip BM Embedded Security Subsystem 2.0³³ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security¹⁶ / TCG-compliant Limited warranty¹² 1 year - EasyServ™¹¹⁰ onsite pickup and delivery / service upgrades²² avail 256 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9830 IBM ThinkPad X3 UltraBase media slice 512 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 ThinkPad Port Replicator II 74P6733 GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 ThinkPad Mini Dock 287810U 287710U 287710U 287710U 287710U 287710U 287710U 287710U 287910U 287910U 287910U 287910U 287910U 287910U 24P9230 Sold Bard Disk 9.5mm (4200 rpm) 09N4268 ThinkPad X30 Series Extended Life Battery 02K7041 40GB HS Hard Disk 9.5mm (5400 rpm) 08K9816 ThinkPad 72W AC/DC Combo Adapter 22P9010	nd 6-cell battery)		
256 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 512 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 1GB PC2700 DDR-SDRAM CL2.5 SOD 31P9834 1GB PC2700	e, UltraBase lock lel ports rt nonitor port Ver 2.0 only on X31)		
512 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 ThinkPad Port Replicator II 74P6733 56 watt AC Adapter 1			
80GB HS Hard Disk 9.5mm (5400 rpm) IBM 11a/b/g Wireless CardBus Adapter IBM 11a/b/g Wireless Mini PCI Adapter Intel PRO/Wireless 2200BG Mini PCI IBM M400 Projector O9N4273 IBM Powered USB 2.0 Port Combo Drive 22P9194 ServicePac®.22 1yr IOR 9x5 NBD 30L9188 ServicePac 3yr IOR 9x5 NBD 30L9195 ServicePac 3yr IOR 9x5 NBD 30L9195 International Warranty 24 hour x 7 day¹8 toll-fit support during the w	tem-specific info in over network) nt O-compliant re Ultra available to e image and data ranty Service ¹⁷ toll-free warranty		

	Optical in ThinkPad Mini PCI CDC: modem/ Sec				
Type-model Proce	·				
2371-1CU Pentiu 2371-57U Pentiu 2371-67U Pentiu 2371-87U Pentiu 2371-7GU Pentiu 2371-6EU Pentiu 2371-8EU Pentiu 2371-8EU Pentiu	m M 1.0 256MB 12.1" XGA 20GB None Optional * Intel 11b Wi-Fi³² open; wireless upg Modem Ye m M 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem Ye m M 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg Modem Ye m M 1.2 256MB 12.1" XGA 40GB None Optional * Intel 11b Wi-Fi Modem Ye m M 1.2 512MB 12.1" XGA 40GB None Optional * Intel 11b Wi-Fi Modem Ye m M 1.2 512MB 12.1" XGA 40GB None Optional IBM 11b/g Modem Ye m M 1.2 512MB 12.1" XGA 40GB None Optional IBM 11b/g Modem Ye m M 1.2 512MB 12.1" XGA 40GB None Optional IBM 11b/g Modem Ye m M 1.2 512MB 12.1" XGA 40GB None Optional I	as Gigabit 4 XP Pro Ent Feb 2004 as Gigabit 4 XP Pro Ent Feb 2004 as Gigabit 4 XP Pro W Feb 2004 as Gigabit 8 XP Pro W Feb 2004			
Positioning	Ultimate mobility in a versatile ultraportable; one spindle	SOFTWARE ¹⁴			
Processor L2 cache Memory Diskette drive	Intel® Pentium® M Processor Ultra Low Voltage 1.0GHz or Low Voltage 1.2GHz with enhanced Intel SpeedStep™ technology¹ and 400MHz system bus 1MB / on die (at processor speed) / ECC 256 or 512MB std / 1.28 to 1.53GB max² / PC2700 333MHz DDR1 / non-parity / CL2.5 / std memory soldered to systemboard / one 200-pin SO-DIMM socket available None standard / use optional USB-based diskette drive	Windows XP Professional - Microsoft® Windows® XP Professional²0 ⇒ Disk-to-Disk Recovery (in hidden protected area)			
Ultrabay™ Slim Disk	Supports Ultrabay Slim devices in optional or standard X4 UltraBase Dock 20GB or 40GB ⁸ (4200 rpm), 9.5mm, ATA-100 / 1.8" platter / removable and upgradable / 9.5mm high bay / IBM Active Protection System (shock protection)	Preloaded			
Display	12.1" (308mm) XGA (1024x768) TFT color / Active Matrix / 150 nits	 IBM Rescue and Recovery[™] 			
Graphics external	Integrated Intel Extreme™ Graphics 2 / in 855GME GMCH / uses main memory (up to 64MB) / 266MHz External monitor support via analog DB-15 connector / up to 1600x1200x16.7M at 85Hz	Norton AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities			
Keyboard ThinkLight®	Standard-size ²⁶ keys / 97% size of T Series / 87-key / 18.5mm pitch; 2.5mm stoke / Access IBM button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar ¹³ / soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap Illuminates the keyboard to improve visibility in low-light conditions	■ IBM Update Connector™.15 Downloadable ■ IBM Director Agent ■ Software Delivery Assistant			
Dimensions ³	4-cell without X4 UltraBase: 10.5" x 8.3" x .81-1.06"; 268mm x 211mm x 20.6-26.9mm	System Migration Assistant			
Weight ²	8-cell without X4 UltraBase: 10.5" x 9.3" x .81-1.06"; 268mm x 237mm x 20.6-26.9mm 4-cell battery models: 2.7 lb (1.23kg); 8-cell battery models: 3.1 lb (1.43kg); with 8-cell battery and X4 UltraBase with combo: 4.89 lb (2.22kg)	Client Security Software (for security chip) License (CD not included)			
Case material Battery - type	Color: black; All: magnesium alloy Li-lon 4- or 8-cell / intelligent / supports optional Extended Life Battery on base (for two batteries) / supports optional battery in X4 UltraBase Dock (for two batteries)	Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client			
Battery - life ¹⁰	with 4-cell: 3.5 hr; with 8-cell: 7.5 hr; with 8-cell and optional Extended Life Battery: up to 10 hr	Supports IBM ThinkVantage™ technologies			
Secure Digital slot	Intel 855GME chipset / 82852GME Memory Controller Hub (MCH-M) / 82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, Low Pin Count (LPC) interface, USB [Bluetooth]) / Intel 82802AC Firmware Hub / PCI bus 2.2 32-bit, 33MHz (ethernet, Ricoh® R5C511 CardBus controller, Mini PCI) / LPC bus 33MHz (PC87392 Super I/O for infrared [dock-based ports]) Supports optional X4 UltraBase Dock (see right side) One Secure Digital Card slot / supports SD memory cards used in consumer devices One Type I or one Type II / CardBus 32-bit / PCMCIA 2.1 / integrated door Two USB (version 2.0), plus one powered USB port for select IBM options / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / no serial, parallel, keyboard/mouse ports (use X4) / no IEEE 1394 port	IBM ThinkPad X4 UltraBase™ Dock • Provides desktop expansion and cable management for the X40 • Easily connects to the bottom of the X40 for traveling • Converts the X40 to a two-spindle system by supporting optional Ultrabay Slim accessories in left side: – Ultrabay Slim Li-Polymer Battery 3-cell • OD-RW/DVD Combo II Ultrabay			
Wireless antenna Mini PCI Wireless upg³6 11b Wi-Fi³2 IBM 11b/g³2 11a/b/g Wi-Fi³2 CDC Modem Bluetooth™ Ethernet	UltraConnect™ antenna built into the display cover for optimal wireless signal reception One Mini PCI type III slot (Communications Bay) / customer upgradeable Some: wireless upgradable with wireless Mini PCI options Some: 11b Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wireless 2100 Network Connection 802.11b, Intel 82531 chipset Some: IBM 11b/g Wi-Fi³² wireless⁴, Mini PCI, Atheros™ AR5004G chipset Some: 11a/b/g Wi-Fi³² wireless⁴, Mini PCI, Atheros™ AR5001X+ chipset One Communications Daughter Card (CDC) socket / customer accessible 56K⁵ V.90 (V.92-designed²⁵) modem in CDC / Conexant® chipset Some: Bluetooth wireless technology / in CDC (with modem) Intel PRO/1000 Gigabit Ethernet / on systemboard / Intel 82541Gl chipset (MAC/PHY) /	Slim Drive 73P3288 - ThinkPad Multi-Burner Ultrabay Slim Drive 73P3294 - Second HDD Adapter for Ultrabay Slim 62P4554 Disks supported: • 30GB Hard Disk 09N4268 • 40GB HS Hard Disk 09K9816 • 80GB HS Hard Disk 09N4273 Other features: • Power button (front)			
Audio support	Wake on LAN® Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / mono speaker / 0.5 watt / volume up, down, mute buttons / internal mic / microphone input jack (3.5 mm; pink) / headphone jack (3.5 mm; green)	Stereo speakers (1 watt) Security key lock, security keyhole, and optical security screw Security and optical security screw			
Security Security chip	Power-on password / dual hard disk password / supervisor password / security keyhole IBM Embedded Security Subsystem 2.0 33 / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security 16 / TCG-compliant	Serial and parallel ports PS/2 port for keyboard or mouse Analog DB-15 monitor port Three USB 2.0 ports (via USB hub)			
	3 years/1 yr battery - EasyServ ^{TM,19} onsite pickup and delivery / service upgrades ²² avail	Ethernet port (Gigabit Ethernet)			
256 MB PC2700 512 MB PC2700 1GB PC2700 DD IBM USB POrtabl IBM USB 2.0 Por 40 GB Mini Hard I IBM 11a/b/g Wire IBM 11a/b/g Wire	DDR-SDRAM CL2.5 SOD 31P9828 JBM ThinkPad X4 UltraBase Dock 92P3429 DDR-SDRAM CL2.5 SOD 31P9830 ThinkPad X40 Series Li-lon Battery (4-cell) 92P1009 DR-SDRAM CL2.5 SOD 31P9832 ThinkPad X40 Series Li-lon Battery (8-cell) 92P1009 Diskerte Drive 05k9276 ThinkPad X40 Series Extended Life Battery 92P1006 ThinkPad X40 Series Extended Life Battery 92P1006 ThinkPad X40 Series Extended Life Battery 92P1006 Disk 9.5mm (4200 rpm) 09N4283 ServicePac 3yr IOR 9x5 NBD 30L9190 ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 5yr P&L P/U Depot 69P9201 ServicePac 5yr P&L P/U Depot 69P9201 Other options at ibm.com/pc/us/accessories	Modem port Retractable feet; 1.3 lb; 580g 56 watt AC Adapter Asset ID™.3⁴ (system-specific info in chip accessed over network) ACPI 1.0b and 2.0-compliant International Warranty Service¹ 24 hour x 7 day¹8 toll-free warranty support during the warranty¹² via 800-IBM-SERV (426-7378) (X40) © IBM Corp. February 200			

	Optical in ThinkPad Mini PCI CDC: modem/Sec	Battery Limited WH GbI Avail			
	essor GHz Memory Screen Disk UltraBase X4 UltraBase™ wireless Bluetooth™ chip Im® M 1.2 256MB 12.1" XGA 40GB None Optional Open; wireless upg³6Modem Yes	8 XP Pro 3 years TAA May 2004			
2371-6DU Pentiu 2371-6FU Pentiu	ImM 1.3 256MB 12.1" XGA 40GB None Optional * Intel 11b Wi-Fi ³² Modem Yes				
Positioning US Govt (TAA) ⁵ Processor L2 cache Memory	Ultimate mobility in a versatile ultraportable; one spindle 97U: US Government model (Trade Act Agreement-compliant) Intel® Pentium® M Processor Low Voltage 1.2 or 1.3GHz with enhanced Intel SpeedStep™ technology¹ and 400MHz system bus 1MB / on die (at processor speed) / ECC 256 or 512MB std / 1.28 to 1.53GB max¹ / PC2700 333MHz DDR1 (DDR-SDRAM) / non-parity / CL2.5 / 97U/6DU/6FU: std memory soldered to systemboard; one 200-pin SO-DIMM socket available 7FU with 512MB: 256MB soldered to board; one 256MB SO-DIMM in 200-pin socket	SOFTWARE ¹⁴ Windows XP Professional - Microsoft® Windows® XP Professional ²⁰ Disk-to-Disk Recovery (in hidden protected area) Preloaded Access IBM			
Diskette drive Ultrabay™ Slim Disk	None standard / use optional USB-based diskette drive Supports Ultrabay Slim devices in optional or standard X4 UltraBase Dock 40GB ⁸ (4200 rpm), 9.5mm, ATA-100 / 1.8" platter / removable and upgradable / 9.5mm high bay / IBM Active Protection System (shock protection)	Access Connections Adobe Reader IBM Rescue and Recovery™ Norton AntiVirus (OEM edition) PC Restar™			
Display	12.1" (308mm) XGA (1024x768) TFT color / Active Matrix / 150 nits	PC-Doctor™ ThinkPad Utilities			
Graphics Graphics external	Integrated Intel Extreme™ Graphics 2 / in 855GME GMCH / uses main memory (up to 64MB) / 266MHz External monitor support via analog DB-15 connector / up to 1600x1200x16.7M at 85Hz	IBM Update Connector ^{TM,15} Downloadable IBM Director Agent			
Keyboard ThinkLight®	Standard-size ²⁶ keys / 97% size of T Series / 87-key / 18.5mm pitch; 2.5mm stoke / Access IBM button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar ¹³ / soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap Illuminates the keyboard to improve visibility in low-light conditions	Software Delivery Assistant System Migration Assistant IBM Client Security Software (for security chip)			
Dimensions ³	4-cell without X4 UltraBase: 10.5" x 8.3" x .81-1.06"; 268mm x 211mm x 20.6-26.9mm	License (CD not included)			
Weight ²	8-cell without X4 UltraBase: 10.5" x 9.3" x .81-1.06"; 268mm x 237mm x 20.6-26.9mm 4-cell battery models: 2.7 lb (1.23kg); 8-cell battery models: 3.2 lb (1.47kg); with 8-cell battery and X4 UltraBase with combo: 5.0 lb (2.26kg)	- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client			
Case material Battery - type	Color: black; All: magnesium alloy Li-lon 4- or 8-cell / intelligent / supports optional Extended Life Battery on base (for two batteries) / supports optional battery in X4 UltraBase Dock (for two batteries)				
Battery - life ¹⁰	with 4-cell: 3.5 hr; with 8-cell: 7.5 hr; with 8-cell and optional Extended Life Battery: up to 10 hr	ThinkPad notebooks implement IBM ThinkVantage™ technologies and			
	Intel 855GME chipset / 82852GME Memory Controller Hub (MCH-M) / 82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, Low Pin Count (LPC) interface, USB [Bluetooth]) / Intel 82802AC Firmware Hub / PCI bus 2.2 32-bit, 33MHz (ethernet, Ricoh® R5C511 CardBus controller, Mini PCI) / LPC bus 33MHz (PC87392 Super I/O for infrared [dock-based ports]) supports optional X4 UltraBase Dock (see right side) One Secure Digital Card slot / supports SD memory cards used in consumer devices One Type I or one Type II / CardBus 32-bit / PCMCIA 2.1 / integrated door Two USB (version 2.0), plus one powered USB port for select IBM options / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / no serial, parallel, keyboard/mouse ports (use X4) / no IEEE 1394 port	design; visit ibm.com/thinkvantage IBM ThinkPad X4 UltraBase™ Dock • Provides desktop expansion and cable management for the X40 • Easily connects to the bottom of the X40 for traveling • Converts the X40 to a two-spindle system by supporting optional Ultrabay Slim accessories in left side – Ultrabay Slim Li-Polymer Battery			
Wireless antenna Mini PCI Wireless upg³6 Intel 11b Wi-Fi³2 Intel 11b/g³2 CDC Modem Bluetooth™ Ethernet	UltraConnect™ antenna built into the display cover for optimal wireless signal reception One Mini PCI type III slot (Communications Bay) / customer upgradeable Some: wireless upgradable with wireless Mini PCI options Some: 11b Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wireless 2100 Network Connection 802.11b, Intel 82531 chipset Some: 11b/g Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chipset One Communications Daughter Card (CDC) socket / customer accessible 56K⁰ V.90 (V.92-designed²⁵) modem in CDC / Conexant® chipset None Intel PRO/1000 Gigabit Ethernet / on systemboard / Intel 82541GI chipset (MAC/PHY) / Wake on LAN® Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / mono speaker / 0.5 watt / volume up, down, mute buttons / internal mic /	3-cell 08K81 - CD-RW/DVD Combo II Ultrabay Slim Drive 73P32 - ThinkPad Multi-Burner Ultrabay Slim Drive 73P32 - Second HDD Adapter for Ultrab Slim 62P45 Disks supported: • 30GB Hard Disk 09N42 • 40GB HS Hard Disk 08K98 • 80GB HS Hard Disk 09N42 Other features: • Power button (front)			
Security Security chip	microphone input jack (3.5 mm; pink) / headphone jack (3.5 mm; green) Power-on password / dual hard disk password / supervisor password / security keyhole IBM Embedded Security Subsystem 2.0 ³³ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security 16 / TCG-compliant	Stereo speakers (1 watt) Security key lock, security keyhole, and optical security screw Serial and parallel ports			
	3 years/1 yr battery - EasyServ ^{TM,19} onsite pickup and delivery / service upgrades ²² avail	 PS/2 port for keyboard or mouse Analog DB-15 monitor port 			
256MB PC2700 512MB PC2700 1GB PC2700 DC IBM USB Portabl IBM USB 2.0 Por IBM Powered US IBM USB 2.0 Por IBM USB 2.0 Mel 40GB Mini Hard I Kensington® Mici IBM 11a/b/g Wire IBM 11a/b/g Wire	trable CD-RW Drive 22P5297 ThinkPad Ultraportable 56W AČ Adapter 22P9194 ThinkPad 72W AC/DC Combo Adapter 22P91010 22P9163 IBM 4GB Microdrive™ with PC Card 22P9163 ServicePac ^{®, 22} 2yr IOR 9x5 NBD 22P9200 ServicePac 3yr IOR 9x5 NBD 30L9197 3P2582 ServicePac 5yr IOR 9x5 NBD 30L9197 69P9200	Three USB 2.0 ports (via USB hub) Ethernet port (Gigabit Ethernet) Modem port Retractable feet; 1.3 lb; 580g 6 watt AC Adapter Asset ID ^{TM,34} (system-specific info in chip accessed over network) ACPI 1.0b and 2.0-compliant ENERGY STAR®-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free warranty			

		L2		Optical in	ThinkPad	Mini PCI	CDC: m	odem/ Sec	Battery Limited WH G	bl Avail		
Type-model Proce		Iz cache Memoi	-	Disk UİtraBase	X4 UltraBase™	wireless	Blueto	oth™ chip	cells warranty12 Entr	y date		
2371-E8U Pentiu 2371-GHU Pentiu 2371-G4U Pentiu 2371-G4U Pentiu 2371-E9U Pentiu 2371-E9U Pentiu 2371-A9U Pentiu	Im M 738 1.4 Im M 738 1.4	4 2MB 512Ml 4 2MB 512Ml 4 2MB 512Ml 4 2MB 512Ml 4 2MB 256Ml 4 2MB 256Ml	B 12.1" XGA B 12.1" XGA B 12.1" XGA B 12.1" XGA B 12.1" XGA B 12.1" XGA	440GB None 440GB None 440GB None 440GB None 440GB None 440GB None	Optional Ope Optional * Inte Optional * Inte Optional * Inte Optional Inte Optional * Inte Optional * Inte Optional * Inte Optional * Inte	l 11b/g Wi-Fi l 11b/g Wi-Fi 11a/b/g II ³² l 11b/g Wi-Fi l 11b/g Wi-Fi	Mod Mod Mod Mod Mod Mod Mod	lem Yes l/Blue Yes lem Yes l/Blue Yes lem Yes lem Yes	8 3 years W 4 3 years W	Oct 04 Oct 04 Oct 04 Oct 04 Oct 04 Oct 04		
Positioning Processor				rtable; one spir		vy Voltogo 7	720		SOFTWARE ¹⁴			
L2 cache Memory	(1.4GHz) w 1.1GHz: 1N 256 or 512N non-parity/	vith enhanced MB; 1.4GHz: 2 MB std / 1.28 t	Intel SpeedS 2MB; All: on o 1.53GB m emory solde	Step™ technolog i die (at process ax² / PC2700 3 ered to systemb	3 (1.1GHz) or Logy and 400MHz sor speed) / ECo 33MHz DDR1 (logrd /	system bus		- Microso Professi ⇒ Disk-to- (in hidde	XP Professional ft® Windows® XP ional ²⁰ (Service Pack Disk Recovery en protected area)	(2)		
Diskette drive Ultrabay™ Slim Disk	Supports UI 30GB ⁸ or 40 9.5mm high	Itrabay Slim de DGB ⁸ (4200 rpr bay / IBM Ac	evices in opt n), 9.5mm, A tive Protect	TA-100 / 1.8" pl i on System (sl	d X4 UltraBase atter / removable nock protection)	e and upgrada	able /	Access IAccess I	cue and Recovery™			
Display	•		-		Matrix / 150 nits	5		 PC-Doct 	tor™ `	111)		
Graphics		Intel Extreme nemory (up to		s 2 / in 855GME 6MHz	E GMCH /			ThinkPaAdobe R				
Graphics external	External mo	onitor support v	∕ia anaĺog DI	B-15 connector	/ up to 1600x120		85Hz		late Connector ^{TM,15}			
Keyboard ThinkLight®	Access IBM soft dome T Illuminates	I button / palm rackPoint cap the keyboard	n rest / Track o / ships with to improve v	(Point®, "Press- n classic dome a isibility in low-li	•	net Scroll BackPoint cap	ar ¹³ /	SoftwareSystem	lable ector Agent e Delivery Assistant Migration Assistant nt Security Software	(for		
Dimensions ³ Travel weight ² Case material	8-cell witho 4-cell batte with 8-cell b	ut X4 UltraBa ry models: 2.7	se: 10.5" x 9 lb (1.23kg); <i>UltraBase</i> v	.3" x .81-1.06";	268mm x 211m 268mm x 237m nodels: 3.2 lb (1 lb (2.26kg)	m x 20.6-26.	J111111	security License (0 - Lotus® S		` m and		
Battery - type	Li-Ion 4- or	8-cell / intellig	ent / suppor		ended Life Batte Dock (for two b		or two		BM ThinkVantage [™]			
Battery - life ¹⁰	with 4-céll:	up to 3.25 hr;	with 8-cell: u		`	atteries)		technologi				
Architecture Mobile media base Secure Digital slot PC Card Std slot Ports	82801DBM Low Pin Co PCI bus 2.2 LPC bus 33 Supports or One Secure One Type I Two USB (v external DB	ICH4-M I/O C unt (LPC) inte 32-bit, 33MHz 8MHz (PC8738 bitional X4 Ultra e Digital Card or one Type II version 2.0), p 3-15 monitor /	controller Hu rface, USB (ethernet, F 22 Super I/O aBase Dock I slot / suppo I / CardBus 3 lus one pow infrared (4M	b (ATĀ-100 EIL Bluetooth]) / In Ricoh® R5C511 for infrared [do (see right side orts SD memor 32-bit / PCMCI/ ered USB port bps) / RJ-11 (m	tel 82802AC Firi CardBus contro ock-based ports	mware Hub / oller, Mini PCI oconsumer de d door ptions / (ethernet) /	,	 Provides cable ma Easily co X40 for t Converts system b Ultrabay Ultrabay 3-cell 	s desktop expansion anagement for the X4 connects to the bottom raveling s the X40 to a two-sp by supporting optiona Slim accessories in ay Slim Li-Polymer B	and 10 n of the indle al left side: attery 3K8190		
Wireless antenna Mini PCI Wireless upg ³⁶ Intel 11b/g ³² IBM 11a/b/g II ³² CDC Modem Bluetooth™ Ethernet	UltraConne One Mini Po Some: wire Some: 11b/ Some: 11a/ One Comm 56K ⁶ V.90 (Some: Blue	ct™ antenna b CI type III slot eless upgradal /g Wi-Fi ³² wire /b/g wireless ⁴ , unications Dar V .92-designed etooth wireless 000 Gigabit Ei	uilt into the d (Communication with wire less ⁴ , Mini Po IBM 11a/b/g ughter Card (P ²) modem in technology	lisplay cover for ations Bay) / cu less Mini PCI o CI, Intel PRO/W Mini PCI Adapt (CDC) socket / n CDC / Conexa / in CDC (with r	optimal wireless stomer upgrade ptions /ireless 2200BG ter II, Atheros™ A customer acces ant® chipset	s signal recep eable , Intel 82532 AR5004X chi _l sible	chipset pset	- CD-RW/DVD Combo II Ultrabay Slim Drive 73P3288 - ThinkPad Multi-Burner Ultrabay Slim Drive 73P3294				
Audio support	mono speal	ker / 0.5 watt /	volume up,	down, mute but	oort / AD1981B tons / internal m ck (3.5 mm; gre	ic/		 Stereo s 	utton (front) peakers (1 watt) key lock, security			
Security Security chip					ervisor passwor are key storage		iánt	 Serial an 	and optical security of parallel ports			
Limited warranty ¹²					delivery / servi		2 avail	 PS/2 por 	rt for keyboard or mo DB-15 monitor port	use		
128 MB PC2700 256 MB PC2700 512 MB PC2700 1GB PC2700 DE IBM USB POrtabl IBM USB 2.0 Por IBM Powered US IBM USB 2.0 Me 40GB Mini Hard! Kensington® Mic IBM 11a/b/g Wire IBM 11a/b/g Wire Intel PRO/Wirele	DDR-SDRAI DDR-SDRAIM OR-SDRAIM (I le Diskette Di ttable CD-RV SB 2.0 Port C ttable Multi-B mory Key 51: Disk 9.5mm (oroSaver® Sec eless CardBu eless Mini PC	M CL2.5 SOD M CL2.5 SOD CL2.5 SOD rive V Drive ombo Drive urner Drive 2MB (4200 rpm) curity Cable is Adapter Il Adapter II	31P9830 31P9832 31P9834 05K9276 22P5297 22P9194 22P9163 22P9230 09N4283 73P2582 31P9101 73P4301	ThinkPad X40 S ThinkPad X40 S ThinkPad X40 S ThinkPad Multip ThinkPad Ultrap ThinkPad 72W IBM Enh Perf W ServicePac 3yr ServicePac 5yr ServicePac 5yr ServicePac 5yr	Series Li-Ion Batt leries Extended I lole Battery Charq oortable 56W AC AC/DC Combo A fireless Keybd a 2yr IOR 9x5 NBI IOR 9x5 NBD	ery (4-cell) 92 ery (8-cell) 92 Life Battery 92 ger II 22 Adapter 22 Adapter 22 Adapter 30 D 30 69 69	2P3429 2P1009 2P1005 2P1006 2P9040 - 2K6880 2P9010 8P4067 0L9190 0L9197 9P9200 9P9199	Three Uses Ethernes Modemps Retracta Masset ID™ chip acc ACPI 1.0b ENERGY Internation 24 hour x support	SB 2.0 ports (via USI port (Gigabit Etherno port ble feet; 1.3 lb; 580g	info in (s)		
Son footpoton for in					tal CantrinaTM ma				(AT) @ IBM Corp. Octo			

Type-model Pro	cessor GHz c	L2 ache Memory	Screen Disk	Optical in UltraBase	ThinkPad X4 UltraBase™	Mini PCI wireless	CDC: modem/ SecBatteryLimited Avail Bluetooth™ chip cells warranty date					
• The	ım M 1.2 1 ım M 1.2 1 ım M 1.3 1 ım M 738 1.4 2 ım M 738 1.4 2 ım M 738 md 2	MB 256MB 12 MB 512MB 12 MB 512MB 12 MB 256MB 12	2.1" XGA 40GB 2.1" XGA 40GB 2.1" XGA 40GB 2.1" XGA 40GB 2.1" XGA 40GB (SMB) models are	Combo Combo Combo Combo	X4 UltraBase X4 UltraBase X4 UltraBase X4 UltraBase	*Intel 11b/g W *Intel 11b/g W	Fi Modem Yes 8 3 yr Feb 04 Mod/Blue Yes 8 3 yr Feb 04 i-Fi ³² Modem Yes 8 3 yr May 04 i-Fi Modem Yes 8 3 yr Oct 04 i-Fi Mod/Blue Yes 8 3 yr Oct 04					
Positioning Processor L2 cache Memory	Intel® Pentium 1.4GHz (738) w 1.0/1.2/1.3GHz 256 or 512MB : non-parity / CL2 one 200-pin SC	ty in a versatile u. M Processor U ith enhanced Inte :: 1MB; 1.4GHz: std / 1.28 to 1.53 2.5 / 1GU/6UU/8 0-DIMM socket at IB: 256MB solde	Iltra Low Voltagel SpeedStep™ te 2MB; All: on die GB max ⁷ / PC27 WU/ECU/HCU: vailable;	e 1.0GHz of echnology of (at proces) 00 333MH std memor	and 400MHz's sor speed) / E z DDR1 (DDR y soldered to s	cystem bus CC -SDRAM) / systemboard;	SOFTWARE ¹⁴ Windows XP Professional - Microsoft® Windows® XP Professional ²⁰ - ECU/HCU only: Service Pack 2 † Disk-to-Disk Recovery (in hidden protected area)					
Diskette drive Combo Ultrabay™ Slim Disk Display Graphics	None standard Some: DVD-Ri Supports Ultrab 40GB ⁸ (4200 rp 9.5mm high bay 12.1" (308mm)	/ use optional US OM/CD-RW / 24; bay Slim devices m), 9.5mm, ATA- / IBM Active Pr XGA (1024x768 el Extreme™ Gra	SB-based diskett X/24X/24X/8X ²¹ in optional or sta 100 / 1.8" platter / otection Systel 3) TFT color / Ad	te drive speed / rer ndard X4 l removable m (shock p ctive Matrix	novable from X IltraBase Dock and upgradab rotection) / 150 nits	4 UltraBase	Preloaded ■ IBM Rescue and Recovery™ ■ Access IBM ■ Access Connections ■ Norton AntiVirus (OEM edition) ■ PC-Doctor™ ■ ThinkPad Utilities					
Keyboard ThinkLight®	uses main men Standard-size ² Access IBM bu soft dome Trac Illuminates the	nory (up to 64MB keys / 97% size tton / palm rest / kPoint cap / ship keyboard to impr	y) / 266MHz e of T Series / 87 TrackPoint®, "Pr s with classic do rove visibility in lo	-key / 18.5 ress-to-Sel ome and so ow-light co	mm pitch; 2.5r ect," Internet S ft rim TrackPo nditions	Scroll Bar ¹³ / int cap	 Adobe Reader IBM Update Connector™15 InterVideo WinDVD (combo models) RecordNow and DLA (combo) Downloadable IBM Director Agent 					
Dimensions ³ Weight ² Battery - type Battery - life ¹⁰	8-cell without X 8-cell with X4 L 1GU with 4-cell 6UU/8WU/8RL Li-Ion 4- or 8-ce batteries) / sup	4 UltraBase: 10. 4 UltraBase: 10. IltraBase and op I battery: 2.7 lb (1 I/ECU/HCU with bell / intelligent / su ports optional ba I: up to 3.5 hr; 6U	5" x 9.3" x .81-1. tical: 10.7" x 9.3 1.23kg); Others u 8-cell batt and X upports optional ttery in X4 Ultral	06"; 268m 3" x 1.5-2.0 with 8-cell b 4 UltraBas Extended Base Dock	m x 237mm x 2 "; 272 x 237 x 3 pattery: 3.2 lb (e with combo: Life Battery on (for two batter	20.6-26.9mm 38.2-50.4mm 1.47kg); 5.0lb (2.26kg) base (for two ies)	Software Delivery Assistant System Migration Assistant IBM Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client IBM ThinkPad X4 UltraBase™ Dock (standard with 6UU/8WU/ECU/HCU) Provides desktop expansion and cable management for the X40 Easily connects to the bottom of the X40 for traveling Converts the X40 to a two-spindle system by supporting optional Ultrabay Slim accessories in left side – Ultrabay Slim Li-Polymer Battery 3-cell 08K8190					
Architecture Mobile media base Secure Digital slot PC Card Std slot Ports	Intel 855GME 6 82801DBM ICH Low Pin Count PCI bus 2.2 32-I LPC bus 33MH Some: X4 Ultr. One Secure Di One Type I or of Two USB (vers external DB-15	gital Card slot /	ME Memory Coler Hub (ATA-10 USB [Bluetooth] rnet, Ricoh® R5C er I/O for infrare e right side) supports SD me dBus 32-bit / PCl e powered USB d (4Mbps) / RJ-1	ntroller Hul 0 EIDE, PC) / Intel 828 5511 CardE d [dock-ba mory card: MCIA 2.1 / port for sel 1 (modem	CI bus, 602AC Firmwar Bus controller, I sed ports]) s used in consintegrated doc ect IBM option) / RJ-45 (ethe	Mini PCI) / umer devices or s /						
Wireless antenna Mini PCI Intel 11b Wi-Fi³² IBM 11b/g³² Intel 11b/g³² CDC Modem Bluetooth™ Ethernet Audio support Security Security chip	UltraConnect™ One Mini PCI ty Some: 11b Wi- 802.11b Some: IBM11b Some: 11b/g W One Communic 56K° V.90 (V.92 Some: Bluetoo Intel PRO/1000 Wake on LAN® Soft audio / ICh mono speaker microphone inp Power-on pass IBM Embedde	antenna built into //pe III slot (Comn Fi32 wireless4, Mi o, Intel 82531 chip //g Wi-Fi32 wireless4, Mi cations Daughter 2-designed ²³) mod th wireless technologiable Ethernet AC97 controller / 0.5 watt / volum but jack (3.5 mm; word / dual hard d Security Subs	o the display cover nunications Bay in PCI, Intel PRC oset ass, Mini PCI, Ath Mini PCI, Intel PRC ard (CDC) socidem in CDC / Coology / in CDC (w./ on systemboar r / DirectSound® e up, down, mute pink) / headpholdisk password / system 2.033 / ha	er for optim.) / custome) // custome) // custome) // custome) // custome // color in the self of the self option // custom // custom // custom // custom // custom // intel 82: // support / A // be buttons / // custom // intel 82: // support / A // support / A // support / A // custom // support / A // custom // intel 82: // support / A // custom al wireless sign r upgradeable 2100 Network (5004G chipset 52200BG, Inte ner accessible ipset) 541GI chipset (501981B AC97 nternal mic / 5 mm; green) password / se v storage / muli	Connection I 82532 chipset (MAC/PHY) / 7 codec / ecurity keyhole ti-factor	- CD-RW/DVD Combo II Ultrabay Slim Drive 73P3288 - ThinkPad DVD-ROM Ultrabay Slim Drive 73P3270 - Second HDD Adapter for Ultrabay Slim 62P4554 Disks supported: • 30GB Hard Disk 09N4268 • 40GB HS Hard Disk 08K9816 • 80GB HS Hard Disk 09N4273 Other features: • Power button (front) • Stereo speakers (1 watt) • Security key lock, security						
Limited warranty ¹² 128 MB PC2700 256 MB PC2700	DDR-SDRAM C	■ Analog DR-15 monitor port										
512 MB PC2700 1GB PC2700 DC IBM USB Portabl IBM Powered US IBM USB 2.0 Por 40GB Mini Hard I IBM 11a/b/g Wire IBM 11a/b/g Wire Intel PRO/Wirele	PR-SDRAM CL2 e Diskette Drive BB 2.0 Port Comb table Multi-Burne Disk 9.5mm (420 eless CardBus Aceless Mini PCI Ace	.5 SOD 31P9 05K9 05 Drive 22P9 er Drive 22P9 00 rpm) 09N4 dapter 31P9 dapter II 73P4	834 ThinkPad X 276 ThinkPad L 194 ThinkPad 7 163 ServicePad 283 ServicePad 301 ServicePad 301 ServicePad	(40 Series E Jltraportabl '2W AC/DC ' ^{®, 22} 2yr IOI c 3yr IOR 9 c 5yr IOR 9 c 5yr P&L P	Extended Life B e 56W AC Ada ECombo Adapt R 9x5 NBD x5 NBD x5 NBD	attery 92P1006 pter 02K6880 er 22P9010 30L9190 30L9197 69P9200 69P9201	56 watt AC Adapter Asset ID ^{TM,34} (system-specific info in chip accessed over network) ACPI 1.0b and 2.0-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free warranty support during the warranty ¹² via 800-IBM-SERV (426-7378)					

 $^{\,}$ $\,$ Powered by Intel Centrino[™] mobile technology

	L2	Optical in			OC: modem/ Sec Battery Limited Avail				
	ocessor GHz cache Memor um® M 713 1.1 1MB 256ME	<u> </u>		wireless B I 11b/g Wi-Fi ³²	Modem Yes 4 1 year Oct 04				
2386-GCU Pention	um M 738 1.4 2MB 512ME	12.1" XGA 40GB Combo	X4 UltraBase * Inte	l 11b/g Wi-Fi	Modem Yes 8 1 year Oct 04				
	um M 738				Modem Yes 8 1 year Oct 04 Modem Yes 8 1 year Oct 04				
	um M 738 1.4 2MB 512ME	12.1" XGA 40GB Combo	X4 UltraBase * Inte	l 11b/g Wi-Fi	Mod/Blue Yes 8 1 year Oct 04				
	se small and medium busin 2386 has a 1 year limited w		of the IBM US Think	Express Progr	ram				
Positioning Processor	Ultimate mobility in a versa Intel® Pentium® M Proces				SOFTWARE ¹⁴				
	Low Voltage 738 (1.4GHz with enhanced Intel Speed)	` ,		Windows XP Professional - Microsoft® Windows® XP				
L2 cache	1.1GHz: 1MB ; 1.4GHz: 2	VIB ; All: on die (at process	or speed) / ECC		Professional ²⁰ (Service Pack 2)				
Memory	256 or 512MB std / 1.28 to non-parity / CL2.5 / std me one 200-pin SO-DIMM soo	-SDRAM) /	 ♦ Disk-to-Disk Recovery (in hidden protected area) Preloaded 						
Diskette drive	None standard / use option	nal USB-based diskette dri			 IBM Rescue and Recovery[™] 				
Combo Ultrabay™ Slim	Some: DVD-ROM/CD-RV Supports Ultrabay Slim de				Access IBM Access Connections				
Disk	20GB ⁸ or 40GB (4200 rpm) 9.5mm high bay / IBM Acti	, 9.5mm, ATA-100 / 1.8" pla	tter / removable and		 Norton AntiVirus (OEM edition) PC-Doctor™ 				
Display	12.1" (308mm) XGA (102				Adobe Reader IBM Update Connector ^{TM,15}				
Graphics	Integrated Intel Extreme uses main memory (up to	64MB) / 266MHz			InterVideo WinDVD (combo models) RecordNow and DLA (combo)				
Keyboard	Standard-size ²⁶ keys / 979 Access IBM button / palm	rest / TrackPoint®, "Presś-	to-Select," Internet S	Scroll Bar13 /	Downloadable • IBM Director Agent				
ThinkLight®	soft dome TrackPoint cap Illuminates the keyboard to	/ ships with classic dome a improve visibility in low-lic	and soft rim TrackPo aht conditions	int cap	Software Delivery Assistant System Migration Assistant				
Dimensions ³	4-cell without X4 UltraBas	e: 10.5" x 8.3" x .81-1.06";	268mm x 211mm x 2	20.6-26.9mm	 IBM Client Security Software (for 				
	8-cell without X4 UltraBas 8-cell with X4 UltraBase a	nd optical: 10.7" x 9.3" x 1	.5-2.0"; 272 x 237 x 3	38.2-50.4mm	security chip) License (CD not included)				
Weight ²	4-cell with battery: 2.7 lb (8-cell battery and X4 Ultra	Base with combo: 5.0 lb (2			- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client				
Case material Battery - type	Color: black; All: magne Li-Ion 4- or 8-cell / intellige		nded Life Batterv on	base (for two	ThinkPad notebooks implement IBM				
Battery - life ¹⁰	batteries) / supports option 4-cell models: up to 3.25 h	nal battery in X4 UltraBase	Dock (for two batter		ThinkVantage™technologies				
	with 8-cell and optional Ex	tended Life Battery: up to 1	0 hr		IBM ThinkPad X4 UltraBase™ Dock (standard with GCU/ECU/HCU)				
Architecture	Intel 855GME chipset / 82 82801DBM ICH4-M I/O Co				Provides desktop expansion and Provides desktop expansion and e				
	Low Pin Count (LPC) inter PCI bus 2.2 32-bit, 33MHz				 cable management for the X40 Easily connects to the bottom of the 				
Mahilamadiahaa	LPC bus 33MHz (PC8739	2 Super I/O for infrared [do		VIII II 1 01/7	X40 for traveling Converts the X40 to a two-spindle				
Secure Digital slot	e Some: X4 UltraBase Dod One Secure Digital Card	slot / supports SD memory	cards used in cons	system by supporting optional Ultrabay Slim accessories in left side:					
PC Card Std slot Ports	One Type I or one Type II Two USB (version 2.0), pl		 – Ultrabay Slim Li-Polymer Battery 						
	external DB-15 monitor / in no serial, parallel, keyboar	ifrared (4Mbps) / RJ-11 (m	odem) / RJ-45 (ethe	3-cell 08K8190 - CD-RW/DVD Combo II Ultrabay					
Wirelessantenna	UltraConnect™ antenna bu	• • • •		al reception	Slim Drive 73P3288 - ThinkPad Multi-Burner Ultrabay				
Mini PCI Intel 11b/g ³²	One Mini PCI type III slot (11b/g Wi-Fi ³² wireless ⁴ , Mi			chipset	Slim Drive 73P3294 – Second HDD Adapter for Ultrabay				
CDC Modem	One Communications Dau 56K ⁶ V.90 (V.92-designed	ghter Card (CDC) socket / o	customer accessible		Slim 62P4554				
Bluetooth™	Some: Bluetooth wireless	téchnology / in CDC (with n	nodem)	MAA O (DLIV)	Disks supported: • 30GB Hard Disk 09N4268				
Ethernet Audio support	Intel PRO/1000 Gigabit Eth Soft audio / ICH AC97 con	troller / DiréctSound® supp	ort / AD1981B AC97		40GB HS Hard Disk 08K981680GB HS Hard Disk 09N4273				
	mono speaker / 0.5 watt / microphone input jack (3.5				Other features:				
Security Security chip	Power-on password / dual IBM Embedded Security	hard disk password / supe	ervisor password / se		Power button (front)Stereo speakers (1 watt)				
	1 year - EasyServ ^{TM,19} onsi				Security key lock, security keyhole, and optical security screw				
	DDR-SDRAM CL2.5 SOD			92P3429	Serial and parallel ports PS/2 port for keyboard or mouse				
512MB PC2700	DDR-SDRAM CL2.5 SOD DDR-SDRAM CL2.5 SOD	31P9830 ThinkPad X40 S 31P9832 ThinkPad X40 S	eries Li-Ion Battery (4 eries Li-Ion Battery (8	I-cell) 92P1009 B-cell) 92P1005	Analog DB-15 monitor port				
	DR-SDRAM CL2.5 SOD	31P9834 ThinkPad X40 S 05K9276 ThinkPad Multip	eries Extended Life B	attery92P1006 22P9040	Three USB 2.0 ports (via USB hub) Ethernet port (Gigabit Ethernet)				
IBM USB 2.0 Po	rtable CD-RW Drive SB 2.0 Port Combo Drive	22P5297 ThinkPad Ultrap	ortable 56W AC Ada	oter 02K6880	Modem port Retractable feet; 1.3 lb; 580g				
IBM USB 2.0 Por	rtable Multi-Burner Drive	22P9163 IBM 4GB Microo	163 IBM 4GB Microdrive™ with PC Card 09N4		56 watt AC Adapter				
40GB Mini Hard	mory Key 128MB Disk 9.5mm (4200 rpm)	73P4512 TrackPoint Cap 09N4283 ServicePac ^{®, 22}	1yr IOR 9x5 NBD	73P2698 30L9188	Asset ID™.34 (system-specific info in chip accessed over network)				
	roSaver® Security Cable eless CardBus Adapter	73P2582 ServicePac 2yr 31P9101 ServicePac 3yr		30L9189 30L9195	ACPI 1.0b and 2.0-compliant ENERGY STAR®-compliant				
IBM 11a/b/g Wire	eless Mini PCI Adapter II	73P4301 ServicePac 5yr 73P2801 ServicePac 3yr	IOR 9x5 NBD	30L9196 30L9192	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free warranty				
SonyEricsson® (GC83 EDGE PC Card	26K3393 ServicePac 5yr	P&L P/U Depot	69P9197	support during the warranty12 via				
IBM M400 Proje	CIOF	0037A04 Other options at	ibm.com/pc/us/acc	essories	800-IBM-SERV (426-7378)				

	Type-model	Processor	GHz	L2 cache	Memory	Screen	Disk	Optical in UltraBase	ThinkPad X4 UltraBase		Mini PCI vireless	CDC: modem/ Bluetooth™				
133		Pentium® M Pentium M 738							Optional ÷	∗ Intel ∗ Intel	11b/g W 11b/g W	/i-Fi ³² Modem /i-Fi Modem	Yes Yes	EasyServ EasyServ	No Yes	Apr 2004 Oct 2004
	• The 2371 has an EasyServ™.19 onsite pickup and delivery 3 year limited warranty															

These models for education are for sale direct from IBM or through an Authorized Education Reseller. The models for education are not available for resale to any other organization or individual.

Positioning	Ultimate mobility in a versatile ultraportable; one spindle		SOFTWARE ¹⁴		
Processor	Intel® Pentium® M Processor Low Voltage 1.2GHz or 738 (1.4 GHz with enhanced Intel SpeedStep™ technology¹ and 400MHz system be	z)	Windows XP Professional		
L2 cache	1.2GHz: 1MB; 1.4GHz: 2MB; All: on die (at processor speed) / EC		- Microsoft® Windows® XP		
Memory	512MB std / 1.53GB max ⁷ / PC2700 333MHz DDR1 / non-parity /		Professional ²⁰		
	CL2.5 / std memory soldered to systemboard / one 200-pin SO-DIM	IM socket available	- GEU only: Service Pack 2 ♦ Disk-to-Disk Recovery		
Diskette drive	None standard / use optional USB-based diskette drive	Deal	(in hidden protected area)		
Ultrabay™ Slim Disk	Supports Ultrabay Slim devices in optional or standard X4 UltraBase 40GB ⁸ (4200 rpm), 9.5mm, ATA-100 / 1.8" platter / removable and upo		Preloaded		
DISK	9.5mm high bay / IBM Active Protection System (shock protection		GEU only: Education software from		
Display	12.1" (308mm) XGA (1024x768) TFT color / Active Matrix / 150 nit	<u>, </u>	Vital Source Technologies®:		
Graphics	Integrated Intel Extreme™ Graphics 2 / in 855GME GMCH /		vitalsource KEY™ and Personal Portable library™		
·	uses main memory (up to 64MB) / 266MHz		IBM Rescue and Recovery™		
Graphics external	External monitor support via analog DB-15 connector / up to 1600x12		Access IBM		
Keyboard	Standard-size ²⁶ keys / 97% size of T Series / 87-key / 18.5mm pitch		Access Connections Norton AntiVirus (OEM edition)		
	Access IBM button / palm rest / TrackPoint®, "Press-to-Select," Inte soft dome TrackPoint cap / ships with classic dome and soft rim Tra		PC-Doctor™		
ThinkLight®	Illuminates the keyboard to improve visibility in low-light conditions	ioni onii oap	ThinkPad Utilities		
Dimensions ³	4-cell without X4 UltraBase: 10.5" x 8.3" x .81-1.06"; 268mm x 211r	mm x 20.6-26.9mm	Adobe Reader DM Undete Connector TM 15		
Weight ²	with battery: 2.7 lb (1.24kg)		IBM Update Connector™,15 Payman adala.		
Case material	Color: black; All: magnesium alloy Li-lon 4-cell / intelligent / supports optional Extended Life Battery or	hase (for two	Downloadable IBM Director Agent		
Battery - type	batteries) / supports optional battery in X4 UltraBase Dock (for two l		Software Delivery Assistant		
Battery - life ¹⁰	with 4-cell: up to 3.5 hr; with optional 8-cell: up to 7.5 hr;	outtorioo)	System Migration Assistant		
	with 8-cell and optional Extended Life Battery: up to 10 hr		Client Security Software (for		
Architecture	Intel 855GME chipset / 82852GME Memory Controller Hub (MCH-N	M) /	security chip)		
	82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, Low Pin Count (LPC) interface, USB [Bluetooth]) / Intel 82802AC Fi	rmware Hub /	License (CD not included) - Lotus® SmartSuite® Millennium and		
	PCI bus 2.2 32-bit, 33MHz (ethernet, Ricoh® R5C511 CardBus contr		Lotus Notes® Stand-alone Client		
	LPC bus 33MHz (PC87392 Super I/O for infrared [dock-based ports				
	Optional: X4 UltraBase Dock (see right side)	aanaumar davisaa	Supports Think Vantage™ technologies		
PC Card Std slot	One Secure Digital Card slot / supports SD memory cards used in One Type I or one Type II / CardBus 32-bit / PCMCIA 2.1 / integrate	IBM ThinkPad X4 UltraBase™ Dock • Provides desktop expansion and			
Ports	Two USB (version 2.0), plus one powered USB port for select IBM of				
	external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45	(ethernet) /	cable management for the X40		
	no serial, parallel, keyboard/mouse ports (use X4) / no IEEÉ 1394 p		 Easily connects to the bottom of the 		
Wireless antenna	UltraConnect™ antenna built into the display cover for optimal wireles		X40 for traveling Converts the X40 to a two-spindle		
Mini PCI Intel 11b/g ³²	One Mini PCI type III slot (Communications Bay) / customer upgrad 11b/g Wi-Fi ³² wireless ⁴ , Mini PCI, Intel PRO/Wireless 2200BG, Intel 8	82532 chipset	system by supporting optional		
CDC	One Communications Daughter Card (CDC) socket / customer access	ssible	Ultrabay Slim accessories in left side		
Modem	56K ⁶ V.90 (V.92-designed ²⁹) modem in CDC / Conexant [®] chipset		- Ultrabay Slim Li-Polymer Battery		
Bluetooth™ Ethernet	None Intel PRO/1000 Gigabit Ethernet / on systemboard / Intel 82541Gl ch	inset (MAC/PHY) /	3-cell 08K8190 - CD-RW/DVD Combo II Ultrabay		
Lationilot	Wake on LAN®		Slim Drive 73P3288		
Audio support	Soft audio / ICH AC97 controller / DirectSound® support / AD1981B		- ThinkPad DVD-ROM Ultrabay		
	mono speaker / 0.5 watt / volume up, down, mute buttons / internal r microphone input jack (3.5 mm; pink) / headphone jack (3.5 mm; gre		Slim Drive 73P3270 - Second HDD Adapter for Ultrabay		
Security	Power-on password / dual hard disk password / supervisor passwo	rd / security keyhole	Slim 62P4554		
Security chip	IBM Embedded Security Subsystem 2.0 ³³ / hardware key storage	/ multi-factor	Disks supported:		
-	authentication / local file encryption / enhances VPN security ¹⁶ / TC		 30GB Hard Disk 09N4268 40GB HS Hard Disk 08K9816 		
Limited warranty ¹²	3 years/1 yr battery - EasyServ™.19 onsite pickup and delivery / serv		•80GB HS Hard Disk 09N4273		
	DDR-SDRAM CL2.5 SOD 31P9828 IBM ThinkPad X4 UltraBase Do		Other features:		
	DDR-SDRAM CL2.5 SOD 31P9830 ThinkPad X40 Series Li-Ion Batt DDR-SDRAM CL2.5 SOD 31P9832 ThinkPad X40 Series Li-Ion Batt		Power button (front)		
	DDR-SDRAM CL2.5 SOD 31P9832 ThinkPad X40 Series Li-Ion Batt R-SDRAM CL2.5 SOD 31P9834 ThinkPad X40 Series Extended I		Stereo speakers (1 watt)		
IBM USB Portabl	e Diskette Drive 05K9276 ThinkPad Multiple Battery Chard	ger II 22P9040	Security key lock, security keyhole, and optical security screw		
IBM USB Serial F		Adapter 02K6880	Serial and parallel ports		
	B 2.0 Port Combo Drive 22P9194 ThinkPad 72W AC/DC Combo A 22P9163 IBM Enh Perf Wireless Keybrd a		PS/2 port for keyboard or mouse		
IBM USB 2.0 Por	table 40GB Hard Disk 22P7196 IBM USB Travel Keyboard with	UltraNav 31P9490	Analog DB-15 monitor portThree USB 2.0 ports (via USB hub)		
IBM USB 2.0 Mei	mory Key 256MB 22P9228 TrackPoint Cap Collection	73P2698	Ethernet port (Gigabit Ethernet)		
IBM USB 2.0 Mei			Modem port		
	Disk 9.5mm (4200 rpm) 09N4283 Premiere Leather Carrying Cas oSaver® Security Cable 73P2582 ThinkPad Carrying Case - Back		Retractable feet; 1.3 lb; 580g		
	less CardBus Adapter 31P9101 ServicePac®, 22 2yr IOR 9x5 NBI	D 30L9190	56 watt AC Adapter		
IBM 11a/b/g Wire	less Mini PCI Adapter II 73P4301 ServicePac 3yr IOR 9x5 NBD	30L9197	Asset ID™,34 (system-specific info in		
	ss 2200BG Mini PCI 73P2801 ServicePac 4yr IOR 9x5 NBD	69P9198	chip accessed over network)		
	iC83 EDGE PC Card 26K3393 ServicePac 5yr IOR 9x5 NBD tton Travel Wheel Mouse 31P7410 ServicePac 4yr P&L P/U Depot	69P9200 69P9199	ACPI 1.0b and 2.0-compliant International Warranty Service ¹⁷		
IBM E400 Project		69P9201	24 hour x 7 day18 toll-free warranty		
IBM M400 Project			support during the warranty ¹²		
			· · · · · · · · · · · · · · · · · · ·		

ThinkPad [®]	× X40 (2372) - Education	Created by IBM PC Institute Personal Systems Reference (PSREF			
Type-model Proce		modem/ Sec Limited Education Avai tooth™ chip warranty¹² software date			
2372-9EU Pentiu 2372-G4U Pentiu	m®M 1.2 1MB 512MB 12.1" XGA 40GB None Optional *Intel 11b/g Wi-Fi ³² N M 738 1.4 2MB 512MB 12.1" XGA 40GB None Optional *Intel 11b/g Wi-Fi N				
These	2372 has a limited onsite service 24 3 year limited warranty educational models of the ThinkPad notebook are available only to public or private K-12 s organized and operated exclusively for educational purposes for use by qualified stude				
Positioning Processor L2 cache Memory	Ultimate mobility in a versatile ultraportable; one spindle Intel® Pentium® M Processor Low Voltage 1.2GHz or 738 (1.4GHz) with enhanced Intel SpeedStep™ technology¹ and 400MHz system bus 1.2GHz: 1MB; 1.4GHz: 2MB; All: on die (at processor speed) / ECC 512MB std / 1.53GB max² / PC2700 333MHz DDR1 / non-parity / CL2.5 / std memory soldered to systemboard / one 200-pin SO-DIMM socket available	SOFTWARE ¹⁴ Windows XP Professional - Microsoft® Windows® XP Professional ²⁰ - G4U only: Service Pack 2			
Diskette drive Ultrabay™ Slim Disk	None standard / use optional USB-based diskette drive Supports Ultrabay Slim devices in optional or standard X4 UltraBase Dock 40GB ⁸ (4200 rpm), 9.5mm, ATA-100 / 1.8" platter / removable and upgradable / 9.5mm high bay / IBM Active Protection System (shock protection)	 Disk-to-Disk Recovery (in hidden protected area) Preloaded G4U only: Education software from 			
Display	12.1" (308mm) XGA (1024x768) TFT color / Active Matrix / 150 nits	Vital Source Technologies®: vitalsource KEY™ and			
Graphics	Integrated Intel Extreme™ Graphics 2 / in 855GME GMCH / uses main memory (up to 64MB) / 266MHz	Personal Portable library™ • IBM Rescue and Recovery™			
Graphics external Keyboard ThinkLight®	External monitor support via analog DB-15 connector / up to 1600x1200x16.7M at 85Hz Standard-size ²⁶ keys / 97% size of T Series / 87-key / 18.5mm pitch; 2.5mm stoke / Access IBM button / palm rest / TrackPoint®, "Press-to-Select," Internet Scroll Bar ¹³ / soft dome TrackPoint cap / ships with classic dome and soft rim TrackPoint cap Illuminates the keyboard to improve visibility in low-light conditions	Access IBM Access Connections Norton AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities			
Dimensions ³ Weight ² Case material Battery - type	4-cell without X4 UltraBase: 10.5" x 8.3" x .81-1.06"; 268mm x 211mm x 20.6-26.9mm with battery: 2.7 lb (1.24kg) Color: black; All: magnesium alloy Li-lon 4-cell / intelligent / supports optional Extended Life Battery on base (for two batteries) / supports optional battery in X4 UltraBase Dock (for two batteries)	Adobe Reader IBM Update Connector™.15 Downloadable IBM Director Agent Software Delivery Assistant			
Battery - life ¹⁰	with 4-cell: up to 3.5 hr; with optional 8-cell: up to 7.5 hr; with 8-cell and optional Extended Life Battery: up to 10 hr	System Migration AssistantClient Security Software (for			
Secure Digital slot	Intel 855GME chipset / 82852GME Memory Controller Hub (MCH-M) / 82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, Low Pin Count (LPC) interface, USB [Bluetooth]) / Intel 82802AC Firmware Hub / PCI bus 2.2 32-bit, 33MHz (ethernet, Ricoh® R5C511 CardBus controller, Mini PCI) / LPC bus 33MHz (PC87392 Super I/O for infrared [dock-based ports]) Optional: X4 UltraBase Dock (see right side) One Secure Digital Card slot / supports SD memory cards used in consumer devices One Type I or one Type II / CardBus 32-bit / PCMCIA 2.1 / integrated door	security chip) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client Supports ThinkVantage™ technologie IBM ThinkPad X4 UltraBase™ Doc! Provides desktop expansion and cable management for the X40 Easily connects to the bottom of the X40 for traveling Converts the X40 to a two-spindle system by supporting optional Ultrabay Slim accessories in left sid—Ultrabay Slim Li-Polymer Battery 3-cell 08K819 CD-RW/DVD Combo II Ultrabay Slim Drive 73P3286 — ThinkPad Multi-Burner Ultrabay			
Ports	Two USB (version 2.0), plus one powered USB port for select IBM options / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / no serial, parallel, keyboard/mouse ports (use X4) / no IEEE 1394 port				
Wireless antenna Mini PCI Intel 11b/g³² CDC Modem Bluetooth™ Ethernet	UltraConnect™ antenna built into the display cover for optimal wireless signal reception One Mini PCI type III slot (Communications Bay) / customer upgradeable 11b/g Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chipset One Communications Daughter Card (CDC) socket / customer accessible 56K⁶ V.90 (V.92-designed²³) modem in CDC / Conexant® chipset None Intel PRO/1000 Gigabit Ethernet / on systemboard / Intel 82541GI chipset (MAC/PHY) / Wake on LAN®				
Audio support Security	Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / mono speaker / 0.5 watt / volume up, down, mute buttons / internal mic / microphone input jack (3.5 mm; pink) / headphone jack (3.5 mm; green) Power-on password / dual hard disk password / supervisor password / security keyhole	Slim Drive 73P3294 - Second HDD Adapter for Ultrabay Slim 62P4554 Disks supported:			
Security chip	IBM Embedded Security Subsystem 2.033 / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security16 / TCG-compliant	• 30GB Hard Disk 09N4268 • 40GB HS Hard Disk 08K9816 • 80GB HS Hard Disk 09N4273			
Limited warranty ¹²	3 years/1 year battery, limited onsite service, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time ²⁴	Other features:			
256 MB PC2700 I 512 MB PC2700 ID 1GB PC2700 DD IBM USB Portable IBM USB Serial P IBM Powered US IBM USB 2.0 Port IBM USB 2.0 Mer IBM USB 2.0 Mer 40GB Mini Hard I IBM 4GB Microdr	arallel Adapter 3 2.0 Port Combo Drive able Multi-Burner Drive able 40GB Hard Disk rory Key 256MB rory Key 512MB bisk 9.5mm (4200 rpm) ve™ with PC Card 22P5298 ThinkPad Ultraportable 56W AC Adapter 22P9194 ThinkPad Tylw AC/DC Combo Adapter 22P9103 IBM USB Travel Keyboard with UltraNav 31P9490 IBM Enh Perf Wireless Keybd and Mouse 73P4067 0037A04 0037A04 IBM C400 Projector 0039A04 ThinkPad Nylon Carrying Case 10K0207 73P3600	keyhole, and optical security screw Serial and parallel ports PS/2 port for keyboard or mouse Analog DB-15 monitor port Three USB 2.0 ports (via USB hub) Ethernet port (Gigabit Ethernet) Modem port Retractable feet; 1.3 lb; 580g 56 watt AC Adapter Asset IDTM,34 (system-specific info in			
IBM 11a/b/g Wire IBM 11a/b/g Wire Intel PRO/Wirele	oSaver® Security Cable 73P2582 oSaver® Security Cable 31P9101 ess Mini PCI Adapter II 73P4301 ess 2200BG Mini PCI 73P2801 ton Travel Wheel Mouse 31P7410 Other options at ibm.com/pc/us/accessories of the complex of th	chip accessed over network) ACPI 1.0b and 2.0-compliant International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free warranty support during the warranty ¹²			

Type-model Process	Speed sor GHz Memory Screen	Graphics Disk controller GB ⁸ Opt	Mini PCI Comm Bay ical wireless	CDC Etl modem/ Bluetooth™ p	nernet Battery Workhorse (W) on Security cells or Global (G) Avail lanar chip Preload or Entry (E) date					
 2373-1FU Pentiun 2373-7FU Pentiun 2373-3TU Pentiun 2373-3HU Pentiun 2373-8RU Pentiun 2373-8SU Pentiun 2373-4GU Pentiun 2373-9EU Pentiun 2373-9FU Pentiun 2373-9HU Pentiun 	n° M 1.4 256MB 14.1" XGA n M 1.4 256MB 14.1" XGA n M 1.6 512MB 14.1" XGA n M 1.7 512MB 14.1" SXG	7500 30GB Cor 7500 40HS Cor 7500 40HS Cor 7500 40HS DVI 7500 40HS DVI 7500 40HS DVI 7500 40HS Cor A+ 9000 60U Cor A+ 9000 60U Cor A+ 9000 60U Cor	nbo* Intel 11b Wi-Fi nbo* Intel 11b Wi-Fi nbo Cisco® 802.11b³² nbo* Intel 11b Wi-Fi D Open; wireless upg D Open; wireless upg	Modem G Modem G Modem G Modem G Modem G Mod/Blue G Mod/Blue G Mod/Blue G Mod/Blue G	Sigabit Yes 6 XP Pro G E Oct 2003 Sigabit Yes 6 XP Pro G E Oct 2003 Sigabit Yes 6 XP Pro W G Oct 2003 Sigabit Yes 6 XP Pro W G Oct 2003 Sigabit Yes 6 XP Pro W G Oct 2003 Sigabit Yes 6 XP Pro W G Oct 2003 Sigabit Yes 6 XP Pro W Oct 2003 Sigabit Yes 6 XP Pro W Oct 2003 Sigabit Yes 6 XP Pro No Oct 2003					
Positioning Processor	Perfect balance of performa Intel® Pentium® M Process	or 1.4, 1.6 or 1.6GHz	z with		SOFTWARE ¹⁴					
L2 cache Memory	enhanced Intel SpeedStep 1MB / on die (at processor s 256MB, 512MB, or 1GB st two 200-pin SO-DIMM soci	speed) / EČĆ d / 2GB max ⁷ / PC27(00 333MHz DDR1 / non-p		♦ Disk-to-Disk Recovery					
Diskette drive DVD Combo Ultrabay Slim Disk	None standard / use option Some: DVD-ROM / 24X-83 Some: DVD-ROM/CD-RW One modular bay for interct 30GB ⁸ (4200 rpm), 40GB H removable and upgradable Adapter in Ultrabay Slim / IE IBM Active Protection Systems	(° speed / bootable / 1 / 16X/10X/24X/8X ²¹ nangeable devices (r S (5400 rpm), or 60G (9.5mm high bay / su BM Hard Disk Drive \$	removable from Ultrabay ¹ speed / removable from L ight side) / 9.5mm high bay iB Ultra HS (7200 rpm) / 9 pports 2nd disk with option Shock Absorber /	Iltrabay Slim / 0.5mm high /	(in hidden protected area) Preloaded(all) • Access IBM • Access Connections • Adobe Reader • IBM Rapid Restore™ Ultra • IBM RecordNOW and IBM Drive Letter Access (combo models)					
Display	Some: 14.1" (358.1mm) X0 Some: 14.1" (358.1mm) SX	(GA+ (1400x1050) T	FT color / Active Matrix /	150 nits	InterVideo WinDVD (combo mode Norton AntiVirus (OEM edition) PC-Doctor™					
Graphics Graphics external	Some: ATI Mobility RADE Some: ATI Mobility RADE External monitor support via	ON 9000 / AGP 4X /	'32MB DDR1 (DDR-SDR	AM)	 ThinkPad Utilities IBM Update Connector™.15 					
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM buttor TrackPoint® pointing device UltraNav™ multi-pointing sy Illuminates the keyboard to	n / palm rest / pitch: 1 e, "Press-to-Select," I /stem / touch pad bel	9mm; stroke: 2.5mm (std nternet Scroll Bar ¹³ , magi ow keyboard / Tap Zones	l-size keys) nifying glass	Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant Client Security Software (for security)					
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	(WxDxH): 12.2" x 10.0" x 1. with optical drive and batter Magnesium composite in th Lithium Ion 6-cell / intelligen 6-cell models: 4.1 to 5.0 hr;	y: 4.9 to 5.0 lb (2.2 to se top cover, titanium t/supports unique 2r	o 2.3 kg) -reinforced CFRP in botto nd battery in Ultrabay Slim		chip) License (CD not included) - Lotus® SmartSuite® Millennium an Lotus Notes® Stand-alone Client					
Architecture PC Card Std slots Ports	Intel 855PM chipset / 8285582801DBM ICH4-M I/O Cor Low Pin Count [LPC] interfa PCI4520A CardBus and 13' (security chip; PC87392 Su 2 Type I, 2 Type II, or 1 Typ Two USB (Version 2.0) / pa RJ-11 (modem) / RJ-45 (et	ntroller Hub (ATA-100 ce, USB, [Bluetooth]) 94 controller, Mini Po oer I/O for diskette, pa be III / CardBus 32-bi rallel / external DB-1	EIDE, PCI bus, ethernet I / PCI bus 2.2 32-bit, 33M I, external expansion) / LF arallel, infrared, [docking-bt t / PCMCIA 2.1 / integrate 5 monitor / infrared (4Mb)	Hz (Tl® PC bus 33MH: pased ports]) ed door ps) /	Universal 72 watt AC adapter Asset IDTM.34 (system-specific info in chip accessed over network)					
Video out Wireless antenna Mini PCI Wireless upg ³⁶ 11b Wi-Fi ³²	S-video out port (TV out) / o UltraConnect™ Antenna bu One Mini PCI type III slot (C Some: wireless upgradable Some: 11b Wi-Fi³² wireless	It into the display cove Communications Bay with wireless Mini PC 4, Mini PCI, Intel PRC	er for optimal wireless sigr) / customer upgradable Cl options							
Cisco 802.11b ³² 11a/b/g Wi-Fi ³² CDC Modem Bluetooth™ Ethernet Audio support	802.11b, Intel 8253 Some: 802.11b wireless ⁴ , I Some: 11a/b/g Wi-Fi ³² wire One Communications Dauc 56K ⁶ V.90 (V.92-designed ²⁵ Some: Bluetooth wireless to Gigabit ethernet on systems Soft audio / ICH AC97 cont	Mini PCI, Cisco® Airor less ⁴ , Mini PCI, Athere thter Card (CDC) soci) modem in CDC / Ag echnology / in CDC (w socard / Intel 82540EP roller / DirectSound®	os™ AR5001X+ chipset ket / customer accessible ere® chipset with modem) chipset (MAC/PHY) / PXI support / AD1981B AC97							
Security Security chip	stereo speakers / 1 watt / v microphone input jack (3.5 Power-on password / hard IBM Embedded Security 9 authentication / local file en	mm; pink) / headpho disk password / supe Subsystem 2.0 33 / ha	ne jack (3.5 mm; green) ervisor password / securit Irdware key storage / mult	ti-factor	ServicePac ^{®, 22} 2yr IOR 9x5 NBD 30L9190 ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 4yr IOR 9x5 NBD					
Limited warranty ¹²	3 years/1 yr battery - Easy			•	69P9198					
128 MB PC2700 D 256 MB PC2700 D 512 MB PC2700 D 1GB PC2700 DDF 40GB HS Hard Dis	DR-SDRAM CL2.5 SOD 31 DR-SDRAM CL2.5 SOD 31 DR-SDRAM CL2.5 SOD 31 R-SDRAM CL2.5 SOD 31 R-SDRAM CL2.5 SOD 31 k 9.5mm (5400 rpm) 08 k 9.5mm (5400 rpm) 07 Dlicator II 74 Ck 28	P9828 ThinkPad 72 P9830 T40 High Ca P9832 Ultrabay Slir P9834 ThinkPad 72 K9816 IBM 11a/b/g N4273 IBM 11a/b/g P6733 Intel PRO/M 7810U IBM M400 P	40 Li-lon Battery 6-cell apacity Li-lon Battery 9-ce m Li-Polymer Battery 3-ce 2W AC/DC Combo Adapte Wireless CardBus Adapt Wireless Mini PCI Adptr /ireless 2200BG Mini PCI	08K8214 bil 08K8197 bil 08K8190 er 22P9010 er 31P9101 II 73P4301 73P2801 0037A04	ServicePac 5yr IOR 9x5 NBD 69P9200 ServicePac 4yr P&L P/U Depot 69P9199 ServicePac 5yr P&L P/U Depot 69P9201 Post-warranty annual maintenance agreements at ibm.com/services/its/us/source/					
	oortant warranty information	'	oy Intel Centrino™ mobile te		maspspleu.pdf (T41) © IBM Corp. August 200					

 ^{*} Powered by Intel Centrino™ mobile technology

-	0	Live Birl		CDC Etherno				
	ssor GHz Memory Screen cont	hics Disk oller GB [®] Optical		odem/ on etooth™ planaı	Security cells or Global (Ġ) Avail r chip Preload or Entry (E) date of Yes 6 XP Pro No Apr 2004			
2373-4HU Pentiu Pentiu These school This m	s organized and operated exclusive odel for education is for sale direction.	6 512MB 14.1"XGA 7500 40HS Combo 11a/b/gWi-Fi Modem Gigab						
Positioning	Perfect balance of performance a		SOFTWARE ¹⁴					
Processor L2 cache Memory	Intel® Pentium® M Processor 1.5 enhanced Intel SpeedStep™ tech 1MB / on die (at processor speed 512MB standard / 2GB max² / PC CL2.5 / two 200-pin SO-DIMM so	nology¹ and 400MHz / ECC 2700 333MHz DDR	1 (DDR-SDRAM) / nor	Windows XP Professional - Microsoft® Windows® XP Professional®				
Diskette drive Combo Ultrabay Slim Disk	None standard / use optional USI DVD-ROM/CD-RW / 16X/10X/24 One modular bay for interchange 30GB* (4200 rpm) or 40GB HS (5 9.5mm high bay / supports 2nd di- IBM Hard Disk Drive Shock Abs IBM Active Protection System	X/8X ²¹ speed / removable devices (right si 400 rpm), 9.5mm hig sk with optional HDD orber /	vable from Ultrabay™ \$ de) / 9.5mm high bay h / removable and upg	radable / im /	(in hidden protected area) Preloaded(all) • Access IBM • Access Connections • Adobe Reader • IBM Rapid Restore™ Ultra • IBM RecordNOW and IBM Drive			
Display	14.1 " (358.1mm) XGA (1024x76 8 one latch to unlatch and open with		Matrix / 150 nits /		Letter Access (combo models) InterVideo WinDVD (combo models) Norton AntiVirus (OEM edition)			
Graphics Graphics external	ATI® Mobility RADEON® 7500 / External monitor support via analogous			7M ot 75Uz	 PC-Doctor™ ThinkPad Utilities 			
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM button / pall TrackPoint® pointing device, "Pre UltraNav™ multi-pointing system Illuminates the keyboard to impro	ss-to-Select," Interne / touch pad below ke	et Scroll Bar¹³, magnify eyboard / Tap Zones	ying glass /	IBM Update Connector™.15 Downloadable IBM Director Agent Software Delivery Assistant			
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	(WxDxH): 12.2" x 10.0" x 1.0-1.2" with optical drive and battery: 4.9 Magnesium composite in the top Lithium Ion 6-cell / intelligent / sup 4HU/4KU: 4.7 hr; 4JU: 4.9 hr; Option 1.2"	lbs (2.22 kg) cover, titanium-reinfo corts unique 2nd batt	orced CFRP in bottom ery in Ultrabay Slim	System Migration Assistant Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and				
Architecture PC Card Std slots Ports	Intel 855PM chipset / 82855PM M 82801DBM ICH4-M I/O Controller Low Pin Count [LPC] interface, US PCI4520A CardBus controller, Mi (security chip; PC87392 Super I/O 2 Type I, 2 Type II, or 1 Type III / Two USB (Version 2.0) / parallel RJ-11 (modem) / RJ-45 (etherne	Hub (ATA-100 EIDE BB, [Bluetooth]) / PCI ni PCI, external expara- for diskette, parallel, CardBus 32-bit / PCI external DB-15 mor	, PCI bus, ethernet MA bus 2.2 32-bit, 33MHz nsion) / LPC bus 33MH , infrared, [docking-bas MCIA 2.1 / integrated nitor / infrared (4Mbps)	Universal 72 watt AC adapter Asset ID ^{TM,34} (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant				
Video out Wireless antenna Mini PCI 11a/b/g Wi-Fi³² CDC Modem Bluetooth™ Ethernet Audio support	S-video out port (TV out) / one 4- UltraConnect™ Antenna built into One Mini PCI type III slot (Comm 11a/b/g Wi-Fi³² wireless⁴, Mini PC One Communications Daughter C 56K⁶ V.90 (V.92-designed²९) mod None Gigabit ethernet on systemboard Soft audio / ICH AC97 controller	the display cover for ounications Bay) / cust, Atheros™ AR5001) ard (CDC) socket / cust in CDC / Agere® countries are set of the se	optimal wireless signal tomer upgradable K+ chipset ustomer accessible chipset et (MAC/PHY) / PXE ort / AD1981B AC97 c	CIM and DMI 2.0-compliant PXE 2.0-compliant IBM ImageUltra™ Services available IBM Rapid Restore Ultra available to protect software image and data International Warranty Service¹ 24 hour x 7 day¹³ toll-free warranty support during the warranty¹² via 800-IBM-SERV (426-7378)				
Security Security chip	stereo speakers / 1 watt / volume microphone input jack (3.5 mm; p Power-on password / hard disk p IBM Embedded Security Subsy authentication / local file encrypti	ink) / headphone jac assword / supervisor stem 2.0 ³³ / hardwar on / enhances VPN s	k (3.5 mm; green) r password / security k re key storage / multi-f security ¹⁶ / TCG-compl	keyhole actor liant	The Ultrabay Slim supports: • standard or optional CD-RW/DVD combo drive • optional DVD drive • optional second battery			
Limited warranty ¹² Service options	3 years/1 yr battery - EasyServ™ Service upgrades ²² provide up to coverage from date of ThinkPad	five years of onsite of	or depot repair service	;	optional HDD adapter (for 2nd disk)optional travel bezel			
256 MB PC2700 I 512 MB PC2700 D 1GB PC2700 DD IBM USB POrtabli IBM USB 2.0 Con IBM USB 2.0 Mer CD-RW/DVD Cor ThinkPad Multi-B Second HDD Ada 30GB Hard Disk 9 40GB HS Hard Di 80GB HS Hard Di IBM 4GB Microdr IBM USB Travel I	DDR-SDRAM CL2.5 SOD 31P982 DDR-SDRAM CL2.5 SOD 31P983 DDR-SDRAM CL2.5 SOD 31P983 R-SDRAM CL2.5	B ThinkPad T40 Li- O T40 High Capacit Ultrabay Slim Li-I HinkPad Multipli ThinkPad 72W A ThinkPad 72W A IBM 11a/b/g Wire IBM M400 Project IBM E400 Project IBM E400 Project IBM C400 Project IBM	Ion Battery 6-cell ty Li-Ion Battery 9-cell Polymer Battery 3-cell e Battery Charger II C Adapter C/DC Combo Adapter eless CardBus Adapter eless Mini PCI Adptr II ss 2200BG Mini PCI tor tor tor tCard Reader/Writer epilicator II ock	08K8214 08K8197 08K8190 22P9040 02K6699 22P9010 73P4301 73P2801 0037A04 0038A04 0039A04 31P8901 74P6733 287810U 287710U 22P5265	ServicePac®.22 2yr IOR 9x5 NBD 30L9190 ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 4yr IOR 9x5 NBD 69P9198 ServicePac 5yr IOR 9x5 NBD 69P9200 ServicePac 4yr P&L P/U Depot 69P9199 ServicePac 5yr P&L P/U Depot 69P9201 Other ServicePac options at ibm.com/services/its/us/source/wamomxeu.pdf Post-warranty annual maintenance agreements at ibm.com/services/its/us/source/maspspleu.pdf			

Type-model Proces	Speed ssor GHz Memory Scree	Graphics Disk n controller GB ⁸ O	Mini PCI Comm Bay Optical wireless	modem/	nernet Battery Limited on Security cells Warranty Avail lanar chip Preload date
< 2379-DKU Pentiun • <i>These</i>	n [®] M 1.6 256MB 14.1" S n M 1.6 512MB 14.1" X e small and medium busi 379 has a 3 year limited	GA 7500 40HS C ness (SMB) models ar	combo 11a/b/gWi-Fi ^s re part of the IBM US Th	³² Modem Gi nink Express Pro	•
Positioning	Perfect balance of perfo	rmance and portability			SOFTWARE ¹⁴
Processor	Intel® Pentium® M Proceeds		400MHz system bus		Windows XP Professional
L2 cache Memory	1MB / on die (at proces 256MB or 512MB stan- two 200-pin SO-DIMM	dard / 2GB max ⁷ / PC2			♦ Disk-to-Disk Recovery
Diskette drive Combo	None standard / use op DVD-ROM/CD-RW / 16	tional USB-based disk	cette drive	ahav™ Slim	(in hidden protected area)
Ultrabay Slim	One modular bay for in	erchangeable devices	s (right side) / 9.5mm hig	ıh bay	Preloaded(all) • Access IBM
Disk	40GB HS (5400 rpm), 9 supports 2nd disk with c IBM Hard Disk Drive S IBM Active Protection	ptional HDD Adapter i hock Absorber /	n Ultrabay Slim /	im nign bay /	 Access Connections Adobe Reader IBM Rapid Restore™ Ultra IBM RecordNOW and IBM Drive
Display	Some: 14.1" (358.1mm Some: 14.1" (358.1mm) XGA (1024x768) TF	T color / Active Matrix / TFT color / Active Ma	150 nits trix / 150 nits	Letter Access (combo models) InterVideo WinDVD (combo mdls) Norton AntiVirus (OEM edition)
Graphics	Some: ATI® Mobility F	ADEON® 7500 / AGP	4X / 32MB DDR1 (DD		PC-Doctor™ ThinkPad Utilities
Graphics external	Some: ATI Mobility R. External monitor suppo	ADEON 9000 / AGP 4 t via analog DB-15 cor	X / 32MB DDR1 (DDR- nnector / up to 2048x153	SDRAM) 36x16.7M at 75h	■ IBM Update Connector™.15
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM bu TrackPoint® pointing de UltraNav™ multi-pointir Illuminates the keyboar	utton / palm rest / pitch vice, "Press-to-Select ag system / touch pad I	n: 19mm; stroke: 2.5mm t," Internet Scroll Bar ¹³ , below keyboard / Tap Z	n (std-size keys) magnifying glas	Downloadable
Dimensions ³ Weight ²	(WxDxH): 12.2" x 10.0" with optical drive and ba			a)	security chip)
Case material Battery - type Battery - life ¹⁰	Magnesium composite Lithium Ion 6-cell or 9-cell models: 4.4 to 4.	in the top cover, titanic ell / intelligent / support	um-reinforced CFRP in its unique 2nd battery in	bottom cover Ultrabay Slim	License (CD not included) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Architecture	Intel 855PM chipset / 82	2855PM Memory Conti	roller Hub (MCH-M) /	-	
PC Card Std slots Ports	82801DBM ICH4-M I/O Low Pin Count [LPC] int PCI4520A CardBus cor (security chip; PC87392 2 Type I, 2 Type II, or 1 Two USB (Version 2.0)	erface, USB, [BÌuetoot troller, Mini PCI, exteri Super I/O for diskette, Type III / CardBus 32 / parallel / external DE	th]) / PCI bus 2.2 32-bit, nal expansion) / LPC bu , parallel, infrared, [dock -bit / PCMCIA 2.1 3-15 monitor / infrared (33MHz (TI® is 33MHz iing-based ports 4Mbps) /	Title Deliver to the second
Video out	RJ-11 (modem) / RJ-45 S-video out port (TV ou	. , , , , , , , , , , , , , , , , , , ,		oorts (use USB)	ThinkVantage™ technologies and
Wireless antenna Mini PCI 11b Wi-Fi ³²	UltraConnect™ Antenna One Mini PCI type III sl Some: 11b Wi-Fi ³² wire 802.11b, Intel 8	a built into the display c ot (Communications B less ⁴ , Mini PCI, Intel PI	over for optimal wireless (ay) / customer upgrada	ible	Universal 72 watt AC adapter
11a/b/g Wi-Fi ³² CDC Modem	Some: 11a/b/g Wi-Fi ³² One Communications E 56K ⁶ V.90 (V.92-design	wireless⁴, Mini PCI, Ath Þaughter Card (CDC) s	ocket / customer access	set sible	PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant PXE 2.0-compliant
Bluetooth™ Ethernet Audio support	None Gigabit ethernet on syst Soft audio / ICH AC97 stereo speakers / 1 wat	controller / DirectSoun t / volume up, down, n	id® support / AD1981B / nute buttons / internal n	AC97 codec / nic /	ENERGY STAR®-compliant IBM ImageUltra™ Services available IBM Rapid Restore Ultra available to
Security Security chip	microphone input jack (Power-on password / h IBM Embedded Secur authentication / local fil	ard disk password / su ity Subsystem 2.0 ³³ /	upervisor password / se hardware key storage /	curity keyhole multi-factor	protect software image and data International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free warranty support during the warranty ¹² via
Limited warranty ¹²	3 years/1 yr battery - E	asyServ™,¹9 onsite picl	kup and delivery / servic	ce upgrades ²² av	/ail 800-IBM-SERV (426-7378) ServicePac®, 22 2vr IOR 9x5 NBD
256 MB PC2700 [DDR-SDRAM CL2.5 SOI DDR-SDRAM CL2.5 SOI DDR-SDRAM CL2.5 SOI	D 31P9830 T40 High	d T40 Li-Ion Battery 6-c n Capacity Li-Ion Batter Slim Li-Polymer Batter	y 9-cell 08K81	14 30L9190 97 ServicePac 3yr IOR 9x5 NBD
	R-SDRAM CL2.5 SOD	31P9834 ThinkPag	d Multiple Battery Charg d 72W AC Adapter		40 ServicePac 4yr IOR 9x5 NBD
IBM USB 2.0 Con	nbo Drive	73P4515 ThinkPag	d 72W AC/DC Combo A	Adapter 22P90	10 ServicePac 5yr IOR 9x5 NBD
IBM USB 2.0 Mer		22P9230 IBM 11a/	/b/g Wireless CardBus / /b/g Wireless Mini PCI /	Adptr II 73P43	01 ServicePac 4yr P&L P/U Depot
ThinkPad Multi-B	ombo Ultrabay Slim Driv urner Ultrabay Slim Driv	e 73P3294 IBM C40	O/Wireless 2200BG Mir 0 Projector	0039A	04 ServicePac 5yr P&L P/U Depot
30GB Hard Disk 9	apter for Ultrabay Slim 9.5mm (4200 rpm)	09N4268 IBM M40	0 Projector 00 Projector	0038A 0037A	04 Other ServicePac options at
40GB HS Hard Di	isk 9.5mm (5400 rpm) isk 9.5mm (5400 rpm)	08K9816 GemPC4	400 Smart Card Reader d Port Replicator II	/Writer 31P89 74P67	
IBM Enh Perf Wir	reless Keybrd and Mouse Keyboard with UltraNav		d Mini Dock	287810 287710	OU Post-warranty annual maintenance
ThinkPad Carryin	ng Case - Expander ng Case - BackPack	73P3597 Kensingt	on® MicroSaver® Secur tions at ibm.com /pc/us	ity Cable 22P52	

Type-model Proce	Speed ssor GHz Memory Scree	Graphics controller Disk n memory GB [®] Optical		nodem/	thernet on Securi planar chip				3) Ávail
2373-GEU Pentiu	m®M 1.7 512MB 14.1" SX	GA+ 128MB 60U Combo	11a/b/g Wi-Fi ³² M	lod/Blue	Gigabit Yes	9-cell	XP Pro	W N	lov 2003
2373-GGO Penilu	IIIIWI 1.7 SIZIMB 14.1 SA	GA+ 128MB 60U Combo ⅓	Finiter LID ANI-LISE IN	iou/blue v	Gigabit res	9-ceii	AP PIO	WG	NOV 2003
Positioning Processor	Intel® Pentium® M Proces	ance and portability; two-sp sor 1.7GHz with o™ technology¹ and 400MH.	•		Wind	S ows XP i	OFTW <i>A</i> Profess		
L2 cache Memory	1MB / on die (at processor 512MB standard / 2GB ma		1 (DDR-SDRAM) / i		y/ Pro	rosoft® W fessional k-to-Disk	20		
Diskette drive Combo Ultrabay Slim Disk	DVD-ROM/CD-RW / 16X/ One modular bay for intere 60GB Ultra HS (7200 rpm		vable from Ultrabay de) / 9.5mm high ba nd upgradable / 9.5r	У	oay /	hidden pi aded(all ess IBM ess Coni bbe Read I Rapid R I Record	rotected) nections er estore™ NOW ar	area) Ultra Id IBM	
Display		(1400x1050) TFT color / Acatch to unlatch and open with		s/	Inte	ter Acces rVideo W ton Anti\	/inDVD	(combo	máls)
Graphics Graphics external		T2 / AGP 4X / 128MB DDR ia analog DB-15 connector /			- PC-	·Doctor™ nkPad Ut	`	_ivi editi	011)
Keyboard TrackPoint® Touch pad ThinkLight™	TrackPoint® pointing device UltraNav™ multi-pointing s	on / palm rest / pitch: 19mm te, "Press-to-Select," Intern system / touch pad below ke o improve visibility in low-lig	et Scroll Bar ¹³ , mag eyboard / Tap Zones	nifying gĺa	ors) ass / Dowr IBM	I Update of the local lands of t	Connec • Agent		
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	with optical drive and batte Magnesium composite in t Lithium Ion 9-cell / intellige	1.0-1.2"; 311mm x 255mm x ery: 5.4 lb (2.4 kg) the top cover, titanium-reinf nt / supports unique 2nd bat plus Ultrabay Slim battery:	orced CFRP in botto tery in Ultrabay Slim	om cover	• Sys • Clie sec Licen	tem Migr ent Secur urity chip use (CD n us® Smar	ation As ity Softw ot includ	sistant vare (for ded)	
PC Card Std slots Ports	82801DBM ICH4-M I/O Co Low Pin Count [LPC] interf PCI4520A CardBus and 1: (security chip; PC87392 St 2 Type I, 2 Type II, or 1 Ty Two USB (Version 2.0) / p RJ-11 (modem) / RJ-45 (e	55PM Memory Controller Hu introller Hub (ATA-100 EIDE ace, USB, [Bluetooth]) / PCI 394 controller, Mini PCI, exte uper I/O for diskette, parallel pe III / CardBus 32-bit / PC arallel / external DB-15 mon thernet) / no keyboard or m	i, PCI bus, ethernet bus 2.2 32-bit, 33M ernal expansion) / LF , infrared, [docking-l MCIA 2.1 nitor / infrared (4Mb ouse or serial ports	IHz (TI® PC bus 33 pased por ps) /	BMHz ts])	us Notes®	Stand-	alone C	lient
Video out Wireless antenna Mini PCI 11b Wi-Fi ³²	UltraConnect™ Antenna be One Mini PCI type III slot (Some: 11b Wi-Fi ³² wireles	one 4-pin industry standard uilt into the display cover for Communications Bay) / cus s ⁴ , Mini PCI, Intel PRO/Wire	optimal wireless sig stomer upgradable	·	Think	Pad note Vantage n; visit ib	™techn	ologies	and
11a/b/g Wi-Fi ³² CDC Modem Bluetooth™ Ethernet Audio support	One Communications Dau 56K° V.90 (V.92-designed Bluetooth wireless technol Gigabit ethernet on system Soft audio / ICH AC97 cor stereo speakers / 1 watt /	eless ⁴ , Mini PCI, Atheros™ A ghter Card (CDC) socket / c ²⁹) modem in CDC / Agere® (ogy / in CDC (with modem) bboard / Intel 82540EP chips htroller / DirectSound® supp volume up, down, mute but	ustomer accessible chipset set (MAC/PHY) / PX ort / AD1981B AC9 cons / internal mic /	E	Asset chip PC 20 ACPI CIM a PXE 2	ersal 72 w IDTM,34 (so p access)01-comp 1.0b and and DMI 2 2.0-comp	system- ed over bliant 2.0-com 1.0-com	specific network npliant pliant	info in
Security Security chip Limited warranty ¹²	Power-on password / hard IBM Embedded Security authentication / local file e	mm; pink) / headphone jac d disk password / superviso Subsystem 2.0 ³³ / hardwa ncryption / enhances VPN s VServ ^{™.19} onsite pickup and	r password / securit re key storage / mul security ¹⁶ / TCG-cor	ti-factor npliant	IBM II IBM F pro Interr avail 24 ho	RGY STA mageUltr Rapid Restect softwational V national V ur x 7 da	a™ Serv store Ul vare ima Varranty y¹8 toll-f	rices av tra avail age and Servic ree hard	lable to data e ¹⁷ dware
256 MB PC2700 ID 512 MB PC2700 DI 1GB PC2700 DI IBM USB Portabl. IBM USB Serial PIBM USB 2.0 POR IBM USB 2.0 POR IBM USB 2.0 POR IBM USB 2.0 MER IBM ER	e Diskette Drive Parallel Adapter table CD-RW Drive mbo Drive table Multi-Burner Drive mory Key 256MB mory Key 512MB mbo II Ultrabay Slim Drive eighter for Ultrabay Slim 9.5mm (4200 rpm) 9.5mm (4200 rpm) 9.5mm (4200 rpm)	31P9830 T40 High Capac 31P9832 Ultrabay Slim Li- 31P9834 ThinkPad Multip 05K9276 ThinkPad 72W A 22P5298 ThinkPad 72W A 22P5297 IBM 11a/b/g Wir 73P4515 IBM 11a/b/g Wir 22P9163 IBM 11a/b/g Wir 22P9228 SonyEricsson® (22P9228 IBM E400 Projec 73P3281 IBM E400 Projec 73P3270 IBM C400 Projec 73P3270 IBM C400 Projec 62P4554 GemPC400 Sma 09N4268 ThinkPad Port R 08K9869 ThinkPad Mini D 09N4280 ThinkPad Monito 73P4067 ThinkPad Carryi	C/DC Combo Adapeless CardBus Adapeless Mini PCI Adpleess Mini PCI Adpleess 2200BG Mini PCGC83 EDGE PC Cactor extor art Card Reader/Wriepplicator II ock	cell 08K8 cell 08K8 l 22P9 02K6 oter 22P9 oter 31P9 rd 26K3 0037 0038 0038 0038 44P6 2878 22P9 r 73P3	8197 Servi 8190 9040 Servi 90010 Servi 9101 Servi 9101 Servi 93393 Servi 7404 Servi 944 Servi 954 Servi 965 Servi 975 Servi 976 Servi 976 Servi 9770	cePac 4y cePac 5y cePac 5y cePac 6y cePac 5y cePac 5y r Servicel m.com/s amomxeu warranty ements aid m.com/s	² 2yr IO yr IOR 9 yr IOR 9 yr IOR 9 yr P&L F yr P&L F Pac opti ervices/ i.pdf annual	R 9x5 NBC 3x5 NBC 6x5 NBC 6P/U Dep 6p/U Dep 6ons at its/us/somainter	NBD 30L9190) 30L9197) 39P9198) 39P9200 oot 39P9199 oot 39P9201 burce/

Type-model Prod	Speed cessor GHz Memory	Graphics Disk Screen controller GB ⁸	Mini PCI Comm Bay Optical wireless	modem/	Ethernet Battery Workhorse (W) on Security cells or Global (G) Avail planar chip Preload or Entry (E) date
2373-1UU Pentiur 2373-1YU Pentiur 2373-1WU Pentiur	m® M 1.5 256MB 14 m M 1.5 256MB 14 m M 1.5 256MB 14	4.1" XGA 7500 30GB 4.1" XGA 7500 30GB 4.1" XGA 7500 30GB	DVD *Intel 11b Wi-Fi ³²	Modem	Gigabit Yes 6 XP Pro E May 2004 Gigabit Yes 6 XP Pro E May 2004 Gigabit Yes 6 XP Pro E G May 2004 Gigabit Yes 6 XP Pro E Aug 2004
Positioning Processor L2 cache Memory	with enhanced Intel Sp 1.5GHz: 1MB; 1.6GHz 256MB or 512MB std	cessor 1.5GHz or Inte eedStep™ technology¹ z: 2MB; All: on die (at p ' 2GB max² / PC2700 3	y; two-spindle system Pentium M Processor 729 and 400MHz system bus processor speed) / ECC 33MHz DDR1 / non-parity / 0 ne socket / one socket availa	CL2.5 /	SOFTWARE ¹⁴ Windows XP Professional - Microsoft® Windows® XP Professional ²⁰ Disk-to-Disk Recovery
Diskette drive DVD Combo Ultrabay Slim Disk	Some: DVD-ROM/CD- One modular bay for in 30GB ⁸ (4200 rpm) or 4 9.5mm high bay / supp IBM Hard Disk Drive	X-8X ⁹ speed / bootable RW / 24X/24X/24X/8x terchangeable devices 10GB HS (5400 rpm) / 9 orts 2nd disk with optic Shock Absorber / IBM	e / removable from Ultrabay™ 21 speed / removable from Ul (right side) / 9.5mm high ba 9.5mm high / removable and onal HDD Adapter in Ultrabay I Active Protection System	trabay Slim y upgradable / Slim /	 Access Connections IBM Rescue and Recovery™ IBM RecordNOW and Drive Letter Access powered by Sonic products
Display	· ,	• •	/ Active Matrix / 150 nits	DDAM)	(combo models)InterVideo WinDVD (combo models)
Graphics external	Some: ATI Mobility R External monitor suppo	ADEON 9000 / AGP 42 rt via analog DB-15 con	P 4X / 32MB DDR1 (DDR-S X / 64MB DDR1 (DDR-SDRA nnector / up to 2048x1536x16	AM) .7M / DDC2	Norton AntiVirus (OÈM edition) PC-Doctor™
Keyboard TrackPoint® Touch pad ThinkLight™	TrackPoint® pointing de	vice, "Press-to-Select,' ng system / touch pad t	: 19mm; stroke: 2.5mm (std-s ' Internet Scroll Bar ¹³ , magnit pelow keyboard / Tap Zones n low-light conditions		Adobe Reader IBM Update Connector ^{TM,15} Downloadable IBM Director Agent
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	with optical drive and back Magnesium composite Lithium Ion 6-cell / inte	attery: 4.9 lb (2.2kg) in the top cover, titaniu lligent / supports uniqu	2"; 311mm x 255mm x 26.6- um-reinforced CFRP in botton e 2nd battery in Ultrabay Slin nr; 9-cell plus Ultrabay Slim b	m cover	 Software Delivery Assistant System Migration Assistant IBM Client Security Software (for security chip)
Architecture PC Card Std slots Ports	Low Pin Count [LPC] in (TI® PCI4520A CardBu (security chip; PC8739 2 Type I, 2 Type II, or 1	D Controller Hub (ATA-1 nterface, USB, [Bluetoo Is controller, Mini PCI, v 2 Super I/O for diskette Type III / CardBus 32-1	100 EIDE, PCI bus, ethernet oth]) / PCI bus 2.2 32-bit, 33N external expansion) / LPC bus, parallel, infrared, [docking-	MHz is 33MHz based ports	Lotus® SmartSuite® Millénnium and Lotus Notes® Stand-alone Client
Video out	RJ-11 (modem) / RJ-4 S-video out port (TV or	5 (ethernet) / no keybo ut) / one 4-pin industry	ard or mouse or serial ports standard connector	(use USB)	ThinkVantage™ technologies and design; visit ibm.com /thinkvantage
Wireless antenna Mini PCI Intel 11b Wi-Fi ³²	One Mini PCI type III s	lot (Communications B eless⁴, Mini PCI, Intel P	cover for optimal wireless sig ay) / customer upgradable PRO/Wireless 2100 Network	•	Asset ID ^{TM,34} (system-specific info in chip accessed over network)
Intel 11b/g ³² CDC	Some: 11b/g Wi-Fi ³² w Intel 82532 chi	rireless⁴, Mini PCI, Intel oset	PRO/Wireless 2200BG, socket / customer accessible		PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant
Modem Bluetooth™ Ethernet Audio support	56K ⁶ V.90 (V.92-design None Gigabit ethernet on sys Soft audio / ICH AC97 stereo speakers / 1 wa	ed ²⁹) modem in CDC / stemboard / Intel 8254(controller / DirectSoun tt / volume up, down, m		Œ	PXE 2.0-compliant ENERGY STAR®-compliant IBM ImageUltra™ Services available International Warranty Service¹ 24 hour x 7 day¹8 toll-free warranty support during the warranty¹² via 800-IBM-SERV (426-7378)
Security Security chip	Power-on password / h	àrd disk password / su rity Subsystem 2.0 ³³ /	pervisor password / security hardware key storage / mult es VPN security ¹⁶ / TCG-com	i-factor	The Ultrabay Slim supports: • standard or optional CD-RW/DVD
Limited warranty ¹²	3 years/1 yr battery - E	asyServ™,19 onsite pick	κup and delivery / service up	grades ²² ava	combo drive optional DVD or DVD-RW drive
256MB PC2700 ID 512MB PC2700 ID 1GB PC2700 DI 1BM USB Portable IBM USB 2.0 Con IBM USB 2.0 Mer CD-RW/DVD Con ThinkPad DVD-RC ThinkPad Multi-Br Second HDD Ada 30GB Hard Disk 9 40GB HS Hard D IBM 4GB Microdr IBM USB Travel K SonyEricsson® Gr ThinkPad Carryin	nbo Drive table Multi-Burner Drive mory Key 512MB nbo II Ultrabay Slim Drive Ultrabay Slim Drive urner Ultrabay Slim Drive Utrabay Slim 9.5mm (4200 rpm) isk 9.5mm (5400 rpm) isk 9.5mm (5400 rpm) ive™ with PC Card (eyboard with UltraNav C83 EDGE PC Card	D 31P9830 T40 High D 31P9832 Ultrabay 31P9834 ThinkPac 73P4515 22P9163 IBM 11a. 22P9230 IBM 11a. 22P9230 F62P4554 IBM EPRC 73P3294 62P4554 IBM EPRC 909N4268 ThinkPac 31P9490 26K3393 ThinkPac 73P3600 Other op	d 72W AC/DC Combo Adapto b/g Wireless CardBus Adapto b/g Wireless Mini PCI Adptr D/Wireless 2200BG Mini PCI on® MicroSaver® Security Cant Cap Collection O Projector O Projector O Projector O Projector I Porjector O Projector	ell 08K819 22P904 02K669 er 22P901 er 31P910 II 73P430 73P280 0037A0 0038A0 0039A0 039A0 er 31P890 74P673 287810 287710	optional second battery optional HDD adapter (for 2nd disk) optional travel bezel ServicePac®.22 2yr IOR 9x5 NBD 30L9190 ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 4yr IOR 9x5 NBD 69P9198 ServicePac 5yr IOR 9x5 NBD 69P9200 ServicePac 4yr P&L P/U Depot 69P9201 Post-warranty annual maintenance agreements at

		Graphics Disk	Mini PCI Comm Bay	CDC Workhorse (W) modem/ Security or Global (G) Avai
2373-4WU Pentiun 2373-8XU Pentiun 2373-8ZU Pentiun 2373-6UU Pentiun 2373-6UU Pentiun 2373-4TU Pentiun 2373-JTU Pentiun 2373-9XU Pentiun 2373-9VU Pentiun	n® M 735 1.7 512MB 14.1" SXGA+ n M 735 1.7 512MB 14.1" XGA n M 735 1.7 512MB 14.1" SXGA+ n M 735 1.7 512MB 14.1" SXGA+ n M 735 1.7 512MB 14.1" XGA n M 735 1.8 512MB 14.1" SXGA+	7500 40HS Combo 9600 40HS Combo 9600 40HS Combo 7500 40HS DVD 7500 40HS Combo 7500 40HS Combo 7500 40HS Combo 9600 80HS Combo 9600 80HS Combo	11a/b/g Wi-Fi ³² *Intel 11b Wi-Fi ³² *Intel 11b Wi-Fi *Intel 11b/g Wi-Fi ³² Open; wireless upg 11a/b/g Wi-Fi Open; wireless upg IBM 11b/g ³² 11a/b/g Wi-Fi *Intel 11b/g Wi-Fi	Bluetooth™ chip Preload or Entry (E) date Mod/Blue Yes XP Pro W May 200- Modem Yes XP Pro W G May 200- Modem Yes XP Pro W May 200- Modem Yes XP Pro W G May 200- Modem Yes XP Pro W May 200- Mod/Blue Yes XP Pro May 200-
Positioning Processor L2 cache Memory Diskette drive DVD Combo DVD-RW Ultrabay Slim Disk	Perfect balance of performance and Intel® Pentium® M Processor 735 (with enhanced Intel SpeedStep™ te 2MB / on die (at processor speed) / 256MB, 512MB or 1GB std / 2GB ntwo 200-pin SO-DIMM sockets / std None standard / use optional USB-tSome: DVD-ROM / 24X-8X® speed Some: DVD-ROM/CD-RW / 24X/24 Some: CD-RW/DVD-RW Multi-Burr One modular bay for interchangeab 40GB® HS (5400 rpm) or 80GB HS 9.5mm high bay / supports 2nd disk IBM Hard Disk Drive Shock Absorbers	(1.7GHz) or 745 (1.8GHz) chnology¹ and 400MHz ECC nax² / PC2700 333MHz mem in one socket / or bostable / removable / \(\frac{1}{2}\) EX/24X/8X²¹ speed / removable from Ult le devices (right side) / (5400 rpm) / 9.5mm hig	DR1 / non-parity / CL2.5 ne socket available from Ultrabay™ Slim novable from Ultrabay Slim rabay Slim 9.5mm high bay gh / removable, upgradable pter in Ultrabay Slim /	 Disk-to-Disk Recovery (in hidden protected area) Preloaded Access IBM Access Connections IBM Rescue and Recovery™ IBM RecordNOW and Drive Letter Access powered by Sonic products (combo, DVD-RW models)
Display Graphics Graphics external Keyboard TrackPoint® Touch pad ThinkLight™ Dimensions³ Weight²	Some: 14.1" (358.1mm) XGA (102 Some: 14.1" (358.1mm) SXGA+ (1 Some: ATI® Mobility™ RADEON® Some: ATI Mobility RADEON 9600 External monitor support via analog 87-key / Access IBM button / palm r TrackPoint® pointing device, "Press- UltraNav™ multi-pointing system / to Illuminates the keyboard to improve 14.1" models (WxDxH): 12.2" x 10.0 with optical drive and battery: XGA n	400x1050) TFT color / 7500 / AGP 4X / 32MB 0 / AGP 4X / 64MB DDF DB-15 connector / up to rest / pitch: 19mm; strok to-Select," Internet Scro buch pad below keyboar visibility in low-light cor 0" x 1.0-1.2": 311mm x 2	Active Matrix / 150 nits DDR1 (DDR-SDRAM) R1 (DDR-SDRAM) 2048x1536x16.7M / DDC2l e: 2.5mm (std-size keys) bill Bar ¹³ , magnifying glass / rd / Tap Zones ditions 255mm x 26.6-31.4mm	InterVideo WinDVD (combo, DVD, DVD-RW models) InterVideo WinDVD Creator (DVD-RW models) Norton AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities Adobe Reader IBM Update Connector™ IBM Director Agent Software Delivery Assistant
Battery - type Battery - life ¹⁰ Architecture PC Card Std slots Ports	Lithium Ion 6-cell / intelligent / supp Up to 4.6 hr; Optional 9-cell: up to 7 Intel 855PM chipset / 82855PM Me 82801DBM ICH4-M I/O Controller H Low Pin Count [LPC] interface, USE (TI® PCI4520A CardBus controller, I (security chip; PC87392 Super I/O f 2 Type I, 2 Type II, or 1 Type III / Car Two USB (Version 2.0) / parallel / ex RJ-11 (modem) / RJ-45 (ethernet) /	orts unique 2nd battery 7.5 hr; 9-cell plus Ultrabatemory Controller Hub (Mub (ATA-100 EIDE, PC 3, [Bluetooth]) / PCI bus Mini PCI, external exparor diskette, parallel, infordBus 32-bit / integrated (sternal DB-15 monitor /	in Ultrabay Slim ay Slim battery: up to 9.5 h ICH-M) / I bus, ethernet MAC, 2.2 32-bit, 33MHz nsion) / LPC bus 33MHz ared, [docking-based ports I door infrared (4Mbps) /	security chip) License (CD not included) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Mini PCI Wireless upg ³⁶	S-video out port (TV out) / one 4-pir UltraConnect™ Antenna built into th One Mini PCI type III slot (Commun Some: wireless upgradable with wir Some: 11b Wi-Fi³² wireless⁴, Mini P 802.11b, Intel 82531 chipse Some: 11b/g Wi-Fi³² wireless⁴, Mini Some: 11b/g Wi-Fi³² wireless⁴, Mini Some: 18M 11b/g Wi-Fi³² wireless⁴, Mini Some: BM 11b/g Wi-Fi³² wireless⁴, Mini Some: BM 12b/g Wi-Fi³² wireless⁴ (Die Some: BM 12b/g Wi-Fi³² wireless⁴ (Die Some: Bluetooth wireless technologigabit ethernet on systemboard / I Soft audio / ICH AC97 controller / D stereo speakers / 1 watt / volume up	le display cover for optinications Bay) / custome reless Mini PCI options PCI, Intel PRO/Wireless to PCI, Intel PRO/Wireless to PCI, Atheros™ AR50 Mini PCI, Atheros™ AR50 Mini PCI, Atheros™ AR50 in CDC / Conexant® ct (CDC) socket / custome rin CDC / Conexant® ct (CDC) with modern tel 82540EP chipset (Note that the pricet Sound® support / Augustons	nal wireless signal reception rupgradable 2100 Network Connection as 2200BG, Intel 82532 chilo1X+ chipset t5004G chipset mer accessible hipset mipset	ThinkVantage™ technologies and design; visit ibm.com/thinkvantage Universal 72 watt AC adapter Asset ID™.34 (system-specific info in chip accessed over network) PC 2001-compliant
128MB PC2700 E 256MB PC2700 E	microphone input jack (3.5 mm; pinipower-on password / hard disk pass IBM Embedded Security Subsyste authentication / local file encryption 3 years/1 yr battery - EasyServ ^{TM,19} DDR-SDRAM CL2.5 SOD 31P9828 DDR-SDRAM CL2.5 SOD 31P9830	k) / headphone jack (3.5 sword / supervisor pass em 2.033 / hardware key / enhances VPN securi onsite pickup and delive ThinkPad T40 Li-Ion B T40 High Capacity Li-I	5 mm; green) word / security keyhole v storage / multi-factor ty ¹⁶ / TCG-compliant ery / service upgrades ²² ava sattery 6-cell 08K821 lon Battery 9-cell 08K819	69P9198 4 ServicePac 5yr IOR 9x5 NBD 7 69P9200
1GB PC2700 DDI IBM USB Portable IBM USB 2.0 Port ThinkPad Multi-Bu Second HDD Ada ThinkPad Carrying 80GB HS Hard Di	rable Multi-Burner Drive 22P9163 Jurner Ultrabay Slim Drive 73P3294 Jupter for Ultrabay Slim 62P4554	IBM 11a/b/g Wireless IBM 11a/b/g Wireless Intel PRO/Wireless 22 ThinkPad Port Replica ThinkPad Mini Dock ThinkPad Dock II Other options at ibm.c	CardBus Adapter 31P910 Mini PCI Adptr II 73P430 00BG Mini PCI 73P280 ttor II 74P673 2878100 2877101	1 69P9199 1 ServicePac 5yr P&L P/U Depot 69P9201 3 Post-warranty annual maintenance U agreements at

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Type-model Pro	Speed cessor GHz Memory	Screen	Graphics Disk controller GB ⁸	Optical	Comm Bay	modem/ Bluetooth	print	ritv te	rv or Gl	obal (Ġ) A	\vail
2373-J3U Pentiu 2373-J4U Pentiu 2373-K7U Pentiu 2373-K7U Pentiu 2373-K3U Pentiu 2373-K5U Pentiu 2373-K9U Pentiu 2373-KFU Pentiu 2373-KFU Pentiu 2373-KGU Pentiu 2373-KGU Pentiu 2373-M1U Pentiu 2373-M1U Pentiu	m® M 725 1.6 256MB m M 725 1.6 256MB m M 725 1.6 256MB m M 725 1.7 512MB m M 735 1.7 256MB m M 735 1.7 256MB m M 735 1.8 512MB m M 745 1.8 512MB	14.1" XGA 14.1" XGA 14.1" XGA 14.1" XGA 14.1" XGA 14.1" SXGA 14.1" SXGA 14.1" XGA 14.1" XGA 14.1" XGA 14.1" XGA 14.1" SXGA 14.1" SXGA 14.1" SXGA	7500 40HS 7500 40HS 7500 40HS 7500 40HS 7500 40HS 7500 40HS 7500 40HS 7500 40HS 7500 80HS 7500 80HS 4 9600 80HS	DVD Combo Combo DVD DVD Combo Combo Combo Combo Combo Combo Combo Combo	IBM 11a/b/g II ³² Open; wireless upg # Intel 11a/b/g ³² IBM 11b/g ³² # Intel 11a/b/g IBM 11a/b/g IBM 11a/b/g II # Intel 11a/b/g	Modem Modem Mod/Blue	Finger Finger Finger Finger Finger Finger Finger Finger Finger Finger Finger Finger Finger	Yes 5. Yes 5. Yes 5. Yes 4. Yes 5. Yes 5. Yes 4. Yes 5. Yes 5. Yes 4. Yes 4.	3 hr E 3 hr E 1 hr W 1 hr W 3 hr W 1 hr W 2 hr W 1 hr W 1 hr W 1 hr	Oct G Oct Feb Oct Feb	t 04 v 04 t 04 t 04
Positioning Processor	Perfect balance of per Intel® Pentium® M P							SOFT	WARE ¹⁴		
L2 cache Memory	with enhanced Intel 3 2MB / on die (at prod	SpeedStep™ essor speed d / 2GB max ⁷ M sockets / s	technology¹ an l) / ECC ' / PC2700 333 std mem in one	nd 400Ml MHz DD socket /	Hz system bus R1 / non-parity / CL2.5	, -	Disk-to-	ft® Wind onal²º (S Disk Re	lows® XP Service F	ack 2)	
DVD Combo Ultrabay Slim Disk	Some: DVD-ROM / 2 Some: DVD-ROM/C One modular bay for 30GB ⁸ (4200 rpm), 4 (5400 rpm) / 9.5mm	24X-8X ⁹ spee D-RW / 24X/ interchangea 0GB HS (54 high / remova	ed / bootable / r 24X/24X/8X ²¹ s able devices (ri 00 rpm), 60GB able, upgradabl	removab speed / re ght side) Ultra H le / 9.5m	le from Ultrabay™ Slim emovable from Ultrabay / 9.5mm high bay S (7200 rpm), or 80GB m high bay / supports 2 ve Protection System	Slim HS	Preloaded IBM Res Access Access Norton A virus de	scue an IBM Connec AntiViru	tions s (with 90	ery™ O days of	f
Display					ctive Matrix / 150 nits r / Active Matrix / 150 n	its •	PC-Doc ThinkPa	d Utilitie	es		
Graphics	Some: ATI® Mobility				B DDR1 (DDR-SDRAM DR1 (DDR-SDRAM)	¹⁾ •	Adobe F IBM Upo IBM Red	date Co		1,15 rive Lette	er
Keyboard TrackPoint [®] Touch pad ThinkLight™		device, "Pres ting system /	s-to-Select," In / touch pad belo	ternet Sow keybo	oke: 2.5mm (std-size ke croll Bar ¹³ , magnifying g pard / Tap Zones conditions	líaśs /	(combo	models eo Win[) DVD (con	ic produc nbo, DVD e	
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	with optical drive and Magnesium composi Lithium Ion 6-cell / ir	battery: XG/ te in the top telligent / su	A <i>models:</i> 4.9 lb cover, titanium- pports unique 2	(2.2kg) reinforce 2nd batte	x 255mm x 26.6-31.4m SXGA+ mod: 5.0 lb (2.ed CFRP in bottom covery ery in Ultrabay Slim abay Slim battery: up to	3kg) er	fingerp) IBM Clie security Oownload IBM Dire	ent Secu chip) dable	uritý Softv	ware (for	
Architecture PC Card Std slots Ports	ICH4-M I/O Controlle [LPC] interface, USB (TI® PCI4520A Cardl (security chip; PC87' 2 Type II, or Two USB (Version 2.	er Hub (ATA-1, , [Bluetooth], Bus controlle 892 Super I/0 1 Type III / 0 0) / parallel /	100 EIĎE, PCI , [fingerprint]) / r, Mini PCI, ext D for diskette, p CardBus 32-bit / external DB-15	bus, ethe PCI bus ernal exparallel, in integration monito	pansion) / LPC bus 33M nfrared, [docking-based red door	unt 1Hz ports])		Migration CD not SmartSu	on Assist included)	ant ennium ar	
Video out Wireless antenna Mini PCI	One Mini PCI type III	nna built into slot (Comm	the display cov unications Bay)	er for op / custor	itimal wireless signal re ner upgradable	ception T	hinkVant	age™ te	echnolog	ement IBN ies and kvantage	
Wireless upg ³⁶ Intel 11b Wi-Fi³ Intel 11b/g³² Intel 11a/b/g³² IBM 11a/b/g II³² CDC Modem Bluetooth™ Ethernet Audio support	Some: 11b/g Wi-Fi ³² Some: 11a/b/g wirel Some: IBM 11b/g W Some: 11a/b/g wirel One Communication 56K ⁶ V.90 (V.92-desi Some: Bluetooth wir Gigabit ethernet on s	ireless ⁴ , Min wireless ⁴ , Mini PC ess ⁴ , Mini PC i-Fi ³² wireless ess ⁴ , IBM 11 s Daughter C gned ²⁹) mode eless techno ystemboard 7 controller / vatt / volume	i PCI, Intel PRC ini PCI, Intel PF CI, Intel PRO/W s², Mini PCI, Atl a/b/g Mini PCI. Card (CDC) soc em in CDC / Co llogy / in CDC (/ Intel 82540EF / DirectSound® up, down, mute	D/Wireles RO/Wirel ireless 2 heros™ / Adapter ket / cus nexant® with mod chipse support e buttons	ss 2100, Intel 82531 chi ess 2200BG, Intel 8253 915ABG, 82533 chipsel AR5004G chipset II, Atheros AR5004X ch tomer accessible chipset dem) (MAC/PHY) / PXE / AD1981B AC97 codec s / internal mic /	22 chip f F F F F F F F F F F F F F F F F F F	chip acc PC 2001- ACPI 1.0b CIM and I PXE 2.1-c BM Imag Internation 24 hour x support	d.34 (systemsed (systemsed compliant) and 2.0 compliant eUltra™ nal War 7 day¹8 during	tem-spectover network nt 0-compliant Services ranty Services toll-free with	ific info ir vork) ant nt s availabl vice ¹⁷ warranty anty ¹²	ole
	Power-on password a IBM Embedded Sec Some: Fingerprint	hard disk pa urity Subsy eader on pa	assword / super stem 2.0 ³³ / ha alm rest / swipe	rviśor pà rdware k e sensor	ssword / security keyho sey storage / TCG-comp / integrated with securit ivery / service upgrades	oliant y chip	ServicePa ServicePa ServicePa	ac 3yr IC	OR 9x5 N	30L919 BD 30L919	
256MB PC2700	DDR-SDRAM CL2.5 S	OD 31P983	ThinkPad T				ServicePa			69P91	98
1GB PC2700 DE 80GB HS Hard E	DDR-SDRAM CL2.5 S R-SDRAM CL2.5 SOI Disk 9.5mm (5400 rpm table Multi-Burner Dri	31P983 09N427	32 T40 High C 34 ThinkPad P 73 ThinkPad M	apacity I ort Repli Iini Dock	i-Ion Battery 9-cell 08 cator II 74 28	K8197 P6733 7810U	ServicePa ServicePa	ac 4yr P	&L P/U [69P92 Depot 69P91	
	urner Ultrabay Slim D				n.com/pc/us/accessorie		201 AIOE1. 0	JO Oyl F	ω <u></u> 1 / 0 L	69P92	201

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Type-model Proces	Speed ssor GHz Memory So	Graphics Disk creen controller GB ⁸	Mini Po Comm E Optical wireles	Bay mode	em/ Security or Global (G) Ava
2373-JXU Pentiu 2373-CWU Pentiu 2373-CXU Pentiu 2373-CVU Pentiu	m® M 735 1.7 512MB 15.0" m M 735 1.7 512MB 15.0" m M 745 1.8 512MB 15.0" m M 745 1.8 512MB 15.0" m M 745 1.8 1GB 15.0" m M 745 1.8 512MB 15.0"	SXGA+ 9600 40HS SXGA+ 9600 80HS SXGA+ 9600 80HS SXGA+ 9600 80HS	Combo 11a/b/g Wi-F Combo # Intel 11b/g W Combo 11a/b/g Wi-F	Mode i ³² Mod/E /i-Fi ³² Mod/E i Mod/E	m Yes XP Pro W May 200 Blue Yes XP Pro May 200 Blue Yes XP Pro May 200 Blue Yes XP Pro May 200
Positioning Processor	Perfect balance of performa Intel® Pentium® M Process with enhanced Intel SpeedS	or 735 (1.7GHz) or 745 Step™ technology¹ and	5 (1.8GHz)		SOFTWARE ¹⁴ Vindows XP Professional
L2 cache Memory	2MB / on die (at processor : 512MB or 1GB std / 2GB m pin SO-DIMM sockets / std	ax ⁷ / PC2700 333MHz memory in one socket /	one socket available	5 / two 200-	Microsoff® Windows® XP Professional ²⁰ >Disk-to-Disk Recovery (in hidden protected area)
Diskette drive Combo DVD-RW Ultrabay Slim Disk	None standard / use options Some: DVD-ROM/CD-RW / Some: CD-RW/DVD-RW M One modular bay for interch 40GB ⁸ HS (5400 rpm) or 80 9.5mm high bay / supports: Hard Disk Drive Shock Ab	24X/24X/24X/8X ²¹ speulti-Burner / removable angeable devices (righ 16B HS (5400 rpm) / 9. 2nd disk with optional H	eed / removable from Ultra from Ultrabay Slim t side) / 9.5mm high bay 5mm high / removable, u HDD Adapter in Ultrabay S	ogradable /	Preloaded Access IBM Access Connections IBM Rescue and Recovery™ IBM RecordNOW and Drive Letter Access powered by Sonic products
Display	Some: 15.0" (381.0mm) X (Some: 15.0" (381.0mm) S) FlexView display with	(GA+ (1400x1050) TF1		00 nits / technology	(combo, DVD-RW models) InterVideo WinDVD (combo, DVD-RW models)
	Some: ATI® Mobility™ RAI Some: ATI Mobility RADE External monitor support via	ON 9600 / AGP 4X / 64 analog DB-15 connect	MB DDR1 (DDR-SDRAM or / up to 2048x1536x16.7	M / DDC2B	InterVideo WinDVD Creator (DVD-RW models) Norton AntiVirus (OEM edition) PC-Doctor™
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM button TrackPoint® pointing device, UltraNav™ multi-pointing sy Illuminates the keyboard to	"Press-to-Select," Inter stem / touch pad below	rnet Scroll Bar ¹³ , magnifyi r keyboard / Tap Zones	ng gĺaśs / •	ThinkPad Utilities Adobe Reader IBM Update Connector ^{TM.15} Downloadable
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	(WxDxH): 13.0" x 10.6" x 1. with optical drive and battery Magnesium composite in th Lithium Ion 6-cell / intelliger Up to 4.4 hr; Optional 9-cell	: XGA models: 5.7 lb (2 e top cover, titanium-re t / supports unique 2nd	2.6kg); SXGA+ mod: 5.8 l inforced CFRP in bottom I battery in Ultrabay Slim	o (2.7kg) cover	IBM Director Agent Software Delivery Assistant System Migration Assistant IBM Client Security Software (for security chip)
Architecture PC Card Std slots Ports	Intel 855PM chipset / 8285: 82801DBM ICH4-M I/O Cor Low Pin Count [LPC] interfa (TI* PCI4520A CardBus coi (security chip; PC87392 Su 2 Type I, 2 Type II, or 1 Type Two USB (Version 2.0) / pau	ntroller Hub (ATA-100 E ce, USB, [Bluetooth]) / ntroller, Mini PCI, exteri per I/O for diskette, par III / CardBus 32-bit / ir allel / external DB-15 n	IDE, PCI bus, ethernet M PCI bus 2.2 32-bit, 33Mh- nal expansion) / LPC bus allel, infrared, [docking-ba tegrated door nonitor / infrared (4Mbps)	AC, lz 33MHz ised ports])	.icense (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Mini PCI	RJ-11 (modem) / RJ-45 (eth S-video out port (TV out) / c UltraConnect™ Antenna bui One Mini PCI type III slot (C Some: 11b Wi-Fi³² wireless 802 11b Intel 8253′	ne 4-pin industry stand It into the display cover communications Bay) / 4, Mini PCI, Intel PRO/	dard connector for optimal wireless signa customer upgradable	al reception	ThinkPad notebooks implement IBM ThinkVantage™ technologies and design; visit ibm.com /thinkvantage
Intel 11b/g ³² 11a/b/g Wi-Fi ³² IBM 11b/g ³² CDC Modem Bluetooth™ Ethernet Audio support Security Security chip Limited warranty ¹²	802.11b, Intel 8253' Some: 11b/g Wi-Fi ³² wireles Some: 11a/b/g Wi-Fi ³² wireles Some: BIM 11b/g Wi-Fi ³² wirel Some: BIM 11b/g Wi-Fi ³² wirel Some: Bluetooth wireless to Gigabit ethernet on system Soft audio / ICH AC97 contratereo speakers / 1 watt / vo microphone input jack (3.5 in Power-on password / hard or IBM Embedded Security Sauthentication / local file end 3 years/1 yr battery - EasyS	ss, Mini PCI, Intel PRO/ esss, Mini PCI, Atheros irelesss, Mini PCI, Atheros irelesss, Mini PCI, Atheros heter Card (CDC) socke modem in CDC / Cone echnology / in CDC (wi board / Intel 82540EP c oller / DirectSound® su plume up, down, mute hm; pink) / headphone lisk password / supervi subsystem 2.0 ³³ / hard cryption / enhances VP	TM AR5001X+ chipset ros TM AR5004G chipset tt / customer accessible exant® chipset th modem) chipset (MAC/PHY) / PXE pport / AD1981B AC97 couttons / internal mic / jack (3.5 mm; green) sor password / security keware key storage / multi-fx N security¹6 / TCG-compli	532 chipset F podec / E eyhole actor ant	Jniversal 72 watt AC adapter Asset ID™34 (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant DIM and DMI 2.0-compliant PXE 2.0-compliant ENERGY STAR®-compliant BM ImageUltra™ Services available nternational Warranty Service¹ 44 hour x 7 day¹8 toll-free warranty support during the warranty¹² via 800-IBM-SERV (426-7378)
128MB PC2700 256MB PC2700 512MB PC2700 1GB PC2700 DD IBM USB PORTABI IBM USB 2.0 POR IBM USB 2.0 ME CD-RW/DVD CON ThinkPad Multi-B Second HDD Add 40GB HS Hard D 80GB HS Hard D 80GB HS Hard D ThinkPad Premie IBM USB Travel	DDR-SDRAM CL2.5 SOD 3 DDR-SDRAM CL2.5 SOD 3 DDR-SDRAM CL2.5 SOD 3 R-SDRAM CL2.5 SOD 3	ThinkPad T40 ThinkPad T20 ThinkPad Por ThinkPad Por ThinkPad Por ThinkPad Doo TrackPoint Ca	D Li-Ion Battery 6-cell pacity Li-Ion Battery 9-cell Li-Polymer Battery 3-cell V AC Adapter V AC/DC Combo Adapter V AC/DC Combo Adapter Vireless CardBus Adapte Vireless Mini PCI Adptr II eless 2200BG Mini PCI MicroSaver® Security Cabojector t Replicator II i Dock ck II	08K8214 08K8197 08K8190 02K6699 22P9010 7 31P9101 73P4301 73P2801 1673P2582 0037A04 74P6733 287810U 287710U 73P2698	ServicePac®.22 2yr IOR 9x5 NBD 30L9190 ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 4yr IOR 9x5 NBD 69P9198 ServicePac 5yr IOR 9x5 NBD 69P9200 ServicePac 4yr P&L P/U Depot 69P9198 ServicePac 5yr P&L P/U Depot 69P9200 Cost-warranty annual maintenance agreements at ibm.com/services/its/us/source/maspspleu.pdf

	Type-model Pr	Sporocessor G	eed Iz Memory	Screen o	Graphics controller		Optical	Mini PCI Comm Bay wireless	CDC modem/ Bluetooth ¹	print	Secu- rity chip	Bat- We tery o	r Global	e (W) (G) Avail (E) date
137	2373-LAU Per 2373-L4U Per 2373-L5U Per 2373-L6U Per 2373-L7U Per 2373-N1U Per 2373-N2U Per	entium M 735 1. entium M 735 1. entium M 735 1. entium M 745 1. entium M 745 1.	7 512MB 1 7 512MB 1 7 512MB 1 7 512MB 1 7 512MB 1 8 512MB 1 8 512MB 1	5.0" XGA 5.0" SXGA- 5.0" SXGA- 5.0" SXGA- 5.0" SXGA- 5.0" SXGA- 5.0" SXGA-	7500 + 9600 + 9600 + 9600 + 9600 + 9600	40HS 40HS 40HS 40HS 40HS 80HS	Combo Combo Combo Combo Combo Combo	*Intel 11a/b/g ³² IBM 11a/b/g II ³²	32 Modem Modem Modem Modem Modem Mod/Blue Mod/Blue	Finger Finger Finger Finger Finger Finger Finger	Yes Yes Yes Yes Yes Yes Yes	5.0 hr 3.9 hr 3.9 hr 3.9 hr 3.9 hr 3.9 hr 3.9 hr		Oct 04 Nov 04 Oct 04 Oct 04 Oct 04 Feb 05 Oct 04 Feb 05 Oct 04
	Positioning Processor L2 cache Memory	Intel® Pent with enhand 2MB / on di 512MB std	e (at proces / 2GB max² .	eessor 735 (eedStep™ te sor speed) / / PC2700 33	(1.7GHz) chnolog ECC 33MHz D) or 74 y¹ and DR1 /	5 (1.8GF 400MHz ′ non-par	Iz) s system bus	ble	♦ Disk-to	s XP oft® W sional -Disk	/indows [®] (Service Recove	ional XP ce Pack ry	2)
	Diskette drive Combo Ultrabay Slim Disk	DVD-ROM/ One modul: 40GB ⁸ HS (removable, IBM Hard [ar bay for into 5400rpm), 80 upgradable o Disk Drive S	X/24X/24X/8 erchangeab OGB HS (54/ / 9.5mm high hock Absor	3X ²¹ spectors spect	ed / reles (right or 600 support M Acti	movable at side) / BB Ultra ats 2nd dis ave Prote	from Ultrabay™ Sli 9.5mm high bay HS (7200 rpm) / 9. sk in Ultrabay Slim ection System	5mm high / /	Preloade IBM Re Access Access Norton virus d	ed escue s IBM s Con Anti\	nections irus (wit	covery™	
	•	Some: 15.0 Fle. Some: ATI Some: ATI rnal External mo)" (381.0mm tView display • Mobility™ Mobility RA nitor suppor) SXGÀ+ (1 / with wide \ RADEON® 7 .DEON 9600 t via analog	400x10 3 viewing a 7500 / A D / AGP - DB-15 c	50) TF angle a GP 4X 4X / 64 onnect	T color / and high of A / 32MB 4MB DDI tor / up to	ive Matrix / 200 nits Active Matrix / 200 density using IPS to DDR1 (DDR-SDR, R1 (DDR-SDRAM) b 2048x1536x16.7N	O nits / echnology AM) I / DDC2B	PC-DoThinkPAdobeIBM UpIBM ReAccess	ctor™ ad Ut Read odate ecordi s pow	ilities er Connec NOW an ered by S	d Drive	
	Keyboard TrackPoint® Touch pad ThinkLight™ Dimensions³ Weight² Case material	TrackPoint® UltraNav™ Illuminates 15.0" mode with optical	pointing dev multi-pointing the keyboard Is (WxDxH): drive and ba	ice, "Press- g system / to d to improve 13.0" x 10.6 ttery: XGA r	to-Selectory ouch pactory visibility of x 1.2-2 nodels: 5	t," Inte d belov in low 1.4"; 32 5.7 lb (rnet Scrov v keyboa v-light cor 29mm x 2 2.6kg); S	e: 2.5mm (std-size bil Bar ¹³ , magnifyin rd / Tap Zones nditions 268mm x 31-36mn kXGA+ mod: 5.8 lb CFRP in bottom c	g glass / n (2.7kg)	 (combo InterVi IBM Fi IBM Cl securit Downloa IBM Di 	deo W ngerp ient S y chip adable	/inDVD (rint Soft ecurity S)	ware	,
	Battery - type Battery - life ¹⁰ Architecture	Lithium Ion Up to 4.9 h Intel 855PI ICH4-M I/O [LPC] interf (TI® PCI452	6-cell / intell ; Optional 9- I chipset / 82 Controller H ace, USB, [B 20A CardBus	ligent / supp -cell: up to 7 2855PM Me lub (ATA-10 Bluetooth], fil s controller, l	orts union orts union of the contract of the c	que 2n cell plu ontrolle PCI bu t) / PC , exter	d battery us Ultrab er Hub (Mus, ethern I bus 2.2 mal expa	vin Ultrabay Slim ay Slim battery: up ICH-M) / 82801DB net MAC, Low Pin (32-bit, 33MHz nsion) / LPC bus 3	to 9.0 hr M Count 3MHz	 Softwa Systen License Lotus® 	re De n Migr (CD r Smar	livery As ation As not includ	ssistant ded) Millenniu	
	Ports Video out Wireless anter	Slots 2 Type I, 2 Two USB (\ RJ-11 (mod S-video out nna UltraConne	ype II, or 1 7 /ersion 2.0) / em) / RJ-45 port (TV out ct™ Antenna	Type III / Car parallel / ex (ethernet) / t) / one 4-pir built into th	dBus 32 sternal D no keyb n industr e display	2-bit / i 0B-15 r oard c y stand y cove	ntegrated monitor / or mouse dard con r for optir	infrared (4Mbps) / or serial ports (use nector nal wireless signal	e USB)	ThinkPao ThinkVar				
	Intel 11b/g ³² Intel 11a/b/g IBM 11b/g ³²	i-Fi ³² Some: 11b Some: 11b Some: 11a Some: 18M G II ³² Some: 11a One Comm 56K ⁶ V.90 (' Some: Blu Gigabit eth Soft audio / stereo spea	Wi-Fi ³² wirel g Wi-Fi ³² wir. /b/g wireless unications D /.92-designe tooth wirele ernet on syst ICH AC97 okers / 1 watt	less ⁴ , Mini Peless ⁴ , Mini PCI, ⁴ , Mini PCI, ³ wireless ⁴ , ⁴ , IBM 11a/t laughter Car d ²⁹) modem ss technolor tentoler / D 1 volume up	CI, Intel PCI, Intel Intel PR Mini PC b/g Mini rd (CDC in CDC gy / in Cl ontel 825- irectSou b, down,	PRO/ I PRO/ O/Wire II, Athe PCI Ad) socke / Con/ DC (wi 40EP d Ind® su	Wireless Wireless Wireless Peros™ AF Dapter II, et / custo exant® ch ith mode chipset (I upport / A buttons /		32 chipset set chipset	Universa Asset ID chip a PC 2001 ACPI 1.0 CIM and PXE 2.1 IBM Ima Internation	ISIT IB II 72 V II 72 V CCESS -com ID and DMI -comp geUlti Dnal V x 7 da	m.com/f vatt AC a system-sed over bliant I 2.0-com 2.0-com bliant ra™ Serv Varranty	adapter specific i network mpliant pliant vices avances Service	info in info in ailable
	Limited warran	Power-on p IBM Ember ader Fingerprin hty ¹² 3 years/1 y	assword / ha Ided Securi reader on battery - Ea	ty Subsyste palm rest / asyServ™.19	sword / sem 2.0 ³³ swipe se onsite pi	supervi / hard ensor / ckup a	isor pass lware key integrate and delive	word / security key / storage / TCG-co ed with security chi ery / service upgrad	mpliant p des ²² avail		M-SE Pac ^{®, 2}	RV (426 2 2yr IOF	S-7378) R 9x5 NI 30 x5 NBD	BD 0L9190
	256MB PC27 512MB PC2700 IBM USB POR IBM USB 2.0 ThinkPad Mu Second HDD 80GB HS Hal IBM USB 2.0 ThinkPad Cal ThinkPad Cal ThinkPad Cal	700 DDR-SDRA 700 DDR-SDRA 700 DDR-SDRA 0 DDR-SDRAM 1 Experiment of the protection of	M CL2.5 SOM CL2.5 SOD L2.5 SOD crive Burner Drive ay Slim Driv abay Slim 5400 rpm) 2MB pander ckPack ather	D 31P9830 D 31P9832 31P9834 05K9276 22P9163 e 73P3294 62P4554 09N4273 22P9230 73P3597 73P3599 73P3600	T40 H Ultraba Thinkf Thinkf IBM 1 Intel P Thinkf Thinkf Thinkf	igh Ca ay Slin Pad Mu Pad 72 Pad 72 1a/b/g 1a/b/g Pad Po Pad Mi Pad Do option	pacity Lin Li-Polyn Li-Polyn Li-Polyn Li-Polyn M AC Ac W AC/Do Wireless Wireless 2 Lirt Replication Dock Dock II s at ibm.	C Combo Adapter CardBus Adapter Mini PCI Adapter 200BG Mini PCI	31P9101 31P9701 73P2801 74P6733 287810U 287710U ories	masp	Pac 5y Pac 4y Pac 5y Tranty Ints a om/s spleu	r IOR 9x r P&L P r P&L P annual r ervices/i pdf	x5 NBD 69 x5 NBD 69 /U Depo 69 /U Depo 69 mainten	9P9199 ot 9P9201 ance

1						
Type-model Proces	Speed ssor GHz Memory	Graphics I Screen controller (Mini PCI Comm Bay wireless I	CDC modem/ Bluetooth	Workhorse (W) Security Global (G) Limited Avail ™ chip Preload Entry (E) warranty date
2378-FVU Pentiur 2378-DVU Pentiur 2378-DWU Pentiur 2378-DWU Pentiur 2378-DXU Pentiur 2378-2ZU Pentiur 2378-5UU Pentiur • Thes	m M 1.5 256MB m M 735 1.7 256MB m M 735 1.7 256MB m M 735 1.7 512MB m M 735 1.7 526MB m M 735 1.7 512MB m M 735 1.7 512MB m M 735 1.5 256MB m M 725 1.6 256MB m M 725 1.6 256MB se small and medium b	14.1" XGA 7500 40 14.1" XGA 7500 40 14.1" SXGA+ 9600 40 15.0" XGA 7500 40 15.0" XGA 7500 40 15.0" XGA 7500 40 15.0" XGA+ 9600 60 15.0" XGA 7500 30	## Combo ## PHS		Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem	Yes XP Pro No 1 yr May 2004 Yes XP Pro No 1 yr May 2004 IE Yes XP Pro No 1 yr May 2004 Yes XP Pro No 1 yr May 2004 Yes XP Pro No 1 yr May 2004 M
Positioning	Perfect balance of per	formance and portability	v: two-spindle svs	tem		SOFTWARE ¹⁴
Processor L2 cache Memory	Intel® Pentium® M Pro 735 (1.7GHz) with enl 1.5GHz: 1MB; 1.6/1.7 256MB or 512MB std	ocessor 1.5GHz or Internanced Intel SpeedStep 7GHz: 2MB; All: on die 7 2GB max ⁷ / PC2700 3 8 sockets / std mem in o	el Pentium M Proc ™ technology¹ and (at processor specation) (at DDR1 / no	cessor 725 (1.6G d 400MHz system ed) / ECC on-parity / CL2.5 /	n bús V	Vindows XP Professional Microsoft® Windows® XP Professional ²⁰ ⊳Disk-to-Disk Recovery
Diskette drive DVD Combo Ultrabay Slim Disk	Some: DVD-ROM / 24 Some: DVD-ROM/CD One modular bay for in 30GB* (4200 rpm), 40 removable, upgradable	ptional USB-based disk IX-8X° speed / bootable -RW / 24X/24X/24X/8X' htterchangeable devices GB HS (5400 rpm), 600 b / 9.5mm high bay / sup I Disk Drive Shock Ab	e / removable from ²¹ speed / removal (right side) / 9.5m GB Ultra HS (720 pports 2nd disk wit	ble from Ultrabay nm high bay 0 rpm) / 9.5mm hi th optional HDD A	Slim igh / dapter	(in hidden protected area) Preloaded Access IBM Access Connections IBM Rescue and Recovery™ IBM RecordNOW and Drive Letter Access powered by Sonic products
Display	Some: 14.1 " (358.1m Some: 15.0 " (381.0m Some: 15.0 " (381.0m	m) XGA (1024x768) TF m) SXGA+ (1400x1050 m) XGA (1024x768) TF m) SXGA+ (1400x1050 ay with wide viewing an) TFT color / Acti T color / Active M) TFT color / Acti	ve Matrix / 150 nit Matrix / 200 nits ve Matrix / 200 nit	ts / nology	(combo models) InterVideo WinDVD (combo models) Norton AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities Adobe Reader
Graphics	Some: ATI Mobility F Some: ATI Mobility F	M RADEON® 7500 / AGI ADEON 9000 / AGP 4) ADEON 9600 / AGP 4)	X / 64MB DDR1 ([X / 64MB DDR1 ([DDR-SDRAM) DDR-SDRAM)) •	BM Director Agent BM Director Agent
Keyboard TrackPoint® Touch pad	87-key / Access IBM the TrackPoint® pointing do	ort via analog DB-15 cor outton / palm rest / pitch: evice, "Press-to-Select," ng system / touch pad b	: 19mm; stroke: 2. ' Internet Scroll Ba	5mm (std-size key ar ¹³ , magnifying gl	ys) -	Software Delivery Assistant System Migration Assistant IBM Client Security Software (for security chip)
Dimensions ³ Weight ² Battery - type Battery - life ¹⁰	with optical drive and be 14.1" SXGA+: 5.0 Lithium Ion 6-cell / inte 4.0 to 5.0 hr; Optional): 12.2" x 10.0" x 1.0-1.:): 13.0" x 10.6" x 1.2-1. attery: 14.1" XGA mode lb (2.3kg); 15.0" XGA: 5 elligent / supports unique 9-cell: up to 7.0 hr; 9-ce	4"; 329mm x 268n <i>I</i> s: 4.9 lb (2.2kg) .7 lb (2.6kg); <i>15.0'</i> e 2nd battery in U <i>ell plus Ultrabay</i> S	nm x 31-36mm ' SXGA+: 5.8 lb (2 Iltrabay Slim <i>lim battery:</i> up to	.7kg)	.icense (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Architecture	82801DBM ICH4-M I/Low Pin Count [LPC] (TI® PCI4520A CardB	82855PM Memory Con O Controller Hub (ATA-1 nterface, USB, [Bluetoo us controller, Mini PCI, &	00 EIDE, PCI bus hth]) / PCI bus 2.2 external expansion	s, ethernet MAC, 32-bit, 33MHz n) / LPC bus 33M	Hz C	ThinkPad notebooks implement IBM ThinkVantage™ technologies and design; visit ibm.com /thinkvantage
PC Card Std slots Ports	2 Type I, 2 Type II, or 7 Two USB (Version 2.0 RJ-11 (modem) / RJ-2	92 Super I/O for diskette Type III / CardBus 32-t) / parallel / external DB 5 (ethernet) / no keyboa	oit / integrated doo -15 monitor / infra ard or mouse or s	or ired (4Mbps) / erial ports (use U	SB)	Jniversal 72 watt AC adapter Asset IDTM.34 (system-specific info in chip accessed over network) PC 2001-compliant
Intel 11b/g³² CDC Modem Bluetooth™	UltraConnect™ Antenione Mini PCI type III some: 11b Wi-Fi³² wir 802.11b, Intel Some: 11b/g Wi-Fi³² vir Cone Communications 56K6 V.90 (V.92-desig Some: Bluetooth wire	rireless ⁴ , Mini PCI, Intel F Daughter Card (CDC) s ned ²⁹) modem in CDC / less technology / in CD0	cover for optimal v ay) / customer upg RO/Wireless 2100 PRO/Wireless 220 socket / customer Conexant® chipse C (with modem)	vireless signal rec gradable 0 Network Conne 0BG, Intel 82532 o accessible tt	ception C ction E chipset I	ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant EXE 2.0-compliant ENERGY STAR®-compliant BM ImageUltra™ Services available International Warranty Service ¹⁷ 44 hour x 7 day¹® toll-free warranty support during the warranty¹² via 800-IBM-SERV (426-7378)
Ethernet Audio support	Soft audio / ICH AC97 stereo speakers / 1 wa microphone input jack	stemboard / Intel 82540 controller / DirectSound att / volume up, down, m (3.5 mm; pink) / headpl	d [®] support / AD19 nute buttons / inter hone jack (3.5 mm	981B ÁC97 codec rnal mic / n; green)	S	ServicePac ^{®, 22} 1yr IOR 9x5 NBD 30L9188 ServicePac 2 yr IOR 9x5 NBD
Security Security chip	authentication / local f	nard disk password / su rity Subsystem 2.0 ³³ / ile encryption / enhance onsite pickup and delive	hardware key stores VPN security ¹⁶	rage / multi-factor / TCG-compliant	8	30L9189 ServicePac 3 yr IOR 9x5 NBD 30L9195 ServicePac 4 yr IOR 9x5 NBD
			,			30L9194
256MB PC2700 I 512MB PC2700 I 1GB PC2700 DD IBM USB Portable IBM USB 2.0 Port	table Multi-Burner Drive	DD 31P9830 T40 High DD 31P9832 Ultrabay 31P9834 IBM 11a, 05K9276 ThinkPac 22P9163 ThinkPac	d T40 Li-Ion Batte n Capacity Li-Ion E Slim Li-Polymer E /b/g Wireless Mini d Port Replicator I d Mini Dock	Sattery 9-cell 081 Battery 3-cell 081 PCI Adptr II 731 I 741 28	K8197 K8190 S P4301 P6733 S 7810U	ServicePac 5 yr IOR 9x5 NBD 30L9196 ServicePac 2 yr P&L P/U Depot 30L9191 ServicePac 3 yr P&L P/U Depot 30L9192
	urner Ultrabay Slim Dri isk 9.5mm (5400 rpm)		d Dock II otions at ibm.com			ServicePac 5 yr P&L P/U Depot 69P9197

Type-model Proce	Speed ssor GHz Memory	Graphics Disk Screen controller GB ⁸	Mini PCI Comm Bay Optical wireless	CDC modem/ Bluetooth™	Finger Bat- Bat- Limited print Security tery tery war- Avail reader chip life cells ranty date
2378-R2U Pentiu 2378-R3U Pentiu 2378-R4U Pentiu 2378-R5U Pentiu 2378-R6U Pentiu 2378-R7U Pentiu 2378-R8U Pentiu 2378-R9U Pentiu • The	m M 725 1.6 256MB m M 725 1.6 256MB m M 745 1.8 256MB m M 725 1.6 512MB m M 725 1.6 256MB m M 745 1.8 512MB m M 745 1.8 512MB se small and medium b	15.0" SXGA+ 9600 40HS 14.1" XGA 7500 30GB 14.1" XGA 7500 40HS 14.1" SXGA+ 7500 40HS 15.0" XGA 7500 40HS 15.0" XGA 7500 30GB 15.0" XGA 7500 40HS 15.0" XGA 7500 40HS 15.0" SXGA+ 9600 60U usiness (SMB) models are	Combo *Intel 11b/g Wi-Fi Combo *Intel 11b/g Wi-Fi Combo *Intel 11b/g Wi-Fi DVD *Intel 11b Wi-Fi ³² Combo *Intel 11b/g Wi-Fi	Modem Modem Modem Modem Modem Modem Mod/Blue	
Positioning		formance and portability; tw			SOFTWARE ¹⁴
L2 cache Memory	with enhanced Intel Sp 2MB / on die (at proce 256MB or 512MB std /	peedStep™ technology¹ and ssor speed) / ECC ′ 2GB max² / PC2700 333N	(1.7GHz), or 745 (1.8GHz) 1 400MHz system bus 1Hz DDR1 / non-parity / CL2. ne socket / one socket availab	5/	Windows XP Professional - Microsoft® Windows® XP Professional ²⁰ (Service Pack 2)
Diskette drive DVD Combo Ultrabay Slim Disk	Some: DVD-ROM / 24 Some: DVD-ROM/CD- One modular bay for ir 30GB ⁸ (4200 rpm), 40 removable, upgradable	-RW / 24X/24X/24X/8X ²¹ sp hterchangeable devices (rig GB HS (5400 rpm), or 60G	emovable from Ultrabay™ Slin beed / removable from Ultraba ht side) / 9.5mm high bay B Ultra HS (7200 rpm) / 9.5r rts 2nd disk in Ultrabay Slim /	mm high /	(in hidden protected área) Preloaded • IBM Rescue and Recovery™ • Access IBM • Access Connections • Norton AntiVirus (with 90 days of virus definitions)
Display	Some: 14.1 " (358.1mi Some: 15.0 " (381.0mi Some: 15.0 " (381.0mi FlexView displa	m) SXGA+ (1400x1050) TF m) XGA (1024x768) TFT co m) SXGA+ (1400x1050) TF ay with wide viewing angle a	color / Active Matrix / 150 nits T color / Active Matrix / 150 color / Active Matrix / 200 nits T color / Active Matrix / 200 and high density using IPS ter	nits / nits / chnology	 PC-Doctor™ ThinkPad Utilities Adobe Reader IBM Update Connector™.15 IBM RecordNOW and Drive Letter Access powered by Sonic products
Graphics	Some: ATI Mobility R	ADEON 9600 / AGP 4X / 6	X / 32MB DDR1 (DDR-SDRA 4MB DDR1 (DDR-SDRAM)	,	(combo models) • InterVideo WinDVD (combo, DVD
Keyboard TrackPoint® Touch pad ThinkLight™	TrackPoint® pointing de UltraNav™ multi-pointi			glass /	models) • IBM Fingerprint Software (fingerprint models) • IBM Client Security Software (for
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.0" models (WxDxH) with optical drive and b (2.4kg); 15.0" XGA: 5.7 Magnesium composite Lithium Ion 6- or 9-cell): 13.0" x 10.6" x 1.2-1.4"; 3 attery: 14.1" XGA models: 4 lb (2.6kg); 15.0" SXGA+: 5 in the top cover, titanium-r / intelligent / supports uniq	111mm x 255mm x 26.6-31.4 129mm x 268mm x 31-36mm 9 lb (2.2kg); 14.1" SXGA+: 5.4 8 lb [6-cell] or 6.2 lb [9-cell] (2 einforced CFRP in bottom co ue 2nd battery in Ultrabay SI	4 lb 4.8kg) ver vim	security chip) Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant License (CD not included)
Architecture	Intel 855PM chipset / ICH4-M I/O Controller [LPC] interface, USB, I (TI® PCI4520A CardBu	32855PM Memory Controll Hub (ATA-100 EIDE, PCI b Bluetooth], [fingerprint]) / F is controller, Mini PCI, exte	rnal expansion) / LPC bus 33	ount BMHz	- Lotus® SmartSuite® Millénnium and Lotus Notes® Stand-alone Client ThinkPad notebooks implement IBM ThinkVantage™ technologies and
PC Card Std slots Ports	2 Type I, 2 Type II, or 1 Two USB (Version 2.0)	Type III / CardBus 32-bit / / parallel / external DB-15	ırallel, infrared, [docking-base integrated door monitor / infrared (4Mbps) / or mouse or serial ports (use	LICE)	design; visit ibm.com/thinkvantage Universal 72 watt AC adapter Asset ID™.34 (system-specific info in
Mini PCI	UltraConnect™ Antenr One Mini PCI type III s ² Some: 11b Wi-Fi³² wir Some: 11b/g Wi-Fi³² w One Communications 56K ⁶ V.90 (V.92-desigr Some: Bluetooth Wirel Gigabit ethernet on sy Soft audio / ICH AC97	lot (Communications Bay) eless ⁴ , Mini PCI, Intel PRO ireless ⁴ , Mini PCI, Intel PRC Daughter Card (CDC) sock led ²⁹) modem in CDC / Cor ess technology / in CDC (vstemboard / Intel 82540EP	er for optimal wireless signal if customer upgradable Wireless 2100, Intel 82531 of Wireless 2200BG, Intel 8253 et / customer accessible lexant® chipset vith modem) chipset (MAC/PHY) / PXE upport / AD1981B AC97 cod	reception chipset 2 chipset	chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant PXE 2.1-compliant IBM ImageUltra™ Services available International Warranty Service ¹⁷ 24 hour x 7 day¹³ toll-free warranty support during the warranty¹² via 800-IBM-SERV (426-7378)
	microphone input jack Power-on password / h IBM Embedded Secu Some: Fingerprint re	(3.5 mm; pink) / headphone lard disk password / supervity Subsystem 2.0 ³³ / har lader on palm rest / swipe	e jack (3.5 mm; green) visor password / security keyh dware key storage / TCG-con sensor / integrated with secu	nole npliant irity chip	ServicePac ^{®, 22} 1yr IOR 9x5 NBD 30L9188 ServicePac 2 yr IOR 9x5 NBD 30L9189
			service upgrades ²² available		ServicePac 3 yr IOR 9x5 NBD 30L9195
512MB PC2700 1GB PC2700 DD IBM USB 2.0 POI IBM USB 2.0 Me ThinkPad Multi-B Second HDD Ad: 40GB HS Hard D 80GB HS Hard D	DDR-SDRAM CL2.5 SC DDR-SDRAM CL2.5 SC Br-SDRAM CL2.5 SOD table Multi-Burner Drivi mory Key 512MB urner Ultrabay Slim Dri apter for Ultrabay Slim bisk 9.5mm (5400 rpm) bisk 9.5mm (5400 rpm) og Case - Leather	DD 31P9832 T40 High Ca 31P9834 Ultrabay Slir 22P9163 IBM 11a/b/g 22P9230 IBM 11a/b/g ve 73P3294 Intel PRO/M 62P4554 ThinkPad M 08K9816 ThinkPad M 09N4273 ThinkPad D	apacity Li-Ion Battery 9-cell In Li-Polymer Battery 3-cell Wireless CardBus Adapter Wireless Mini PCI Adptr II Wireless 2200BG Mini PCI Ort Replicator II ini Dock	08K8197 08K8190 31P9101 73P4301 73P2801 74P6733 287810U 287710U	ServicePac 4 yr IOR 9x5 NBD 30L9194 ServicePac 5 yr IOR 9x5 NBD 30L9196 ServicePac 2 yr P&L P/U Depot 30L9191 ServicePac 3 yr P&L P/U Depot 30L9192 ServicePac 5 yr P&L P/U Depot 69P9197
,	nortant warranty informa	'	/ Intel Centrino™ mobile techno		(T42BO) © IBM Corp. October 200

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Type-model Proces	Speed ssor GHz Memory	Graphics Screen controlle		Mini PCI Comm Bay al wireless	CDC modem Bluetootl	/ Security n™ chip P	Workhor Global reload Entry	se (W) (G) Limited Av (E) warranty d	vail late
2379-DXU Pentium • The:	m® M 1.5 256MB 1 m M 725 1.6 512MB 1 m M 735 1.7 512MB 1 se small and medium bus 2379 has a 3 year limited	4.1" XGA 9000 5.0" SXGA+ 9600 siness (SMB) mode	ls are part of t	**************************************	Fi Moder Fi Mod/B press <i>Progr</i>	n Yes lue Yes am	XP Pro No	o 3 yr May 20 o 3 yr Aug 20 o 3 yr May 20	004
Positioning Processor L2 cache Memory	Perfect balance of performers Pentium® M Proce 735 (1.7GHz) with enhall 1.5GHz: 1MB; 1.6/1.7G 256MB or 512MB std / 2 two 200-pin SO-DIMM s	essor 1.5GHz or li nced Intel SpeedSt Hz: 2MB ; All: on d 2GB max ⁷ / PC2700	ntéľ Pentiúm I tep™ technolog lie (at processo 0 333MHz DD	M Processor 725 (1. gy¹ and 400MHz sysi or speed) / ECC R1 / non-parity / CL2	em bús	 Microso Profess 	SOFTWA S XP Profess oft® Windows ional ²⁰ Disk Recove	sional s® XP	
Diskette drive Combo Ultrabay Slim Disk	None standard / use opt DVD-ROM/CD-RW / 242 One modular bay for into 40GB ⁸ HS (5400 rpm) or removable, upgradable / in Ultrabay Slim / Hard I	(/24X/24X/8X ²¹ spectrongers) From the contract of	eed / removabl ces (right side) 7200 rpm) / 9.5 supports 2nd c	/ 9.5mm high bay 5mm high / lisk with optional HDI) Adapter	Preloade • Access • Access • IBM Re	IBM Connection scue and Re	s	er
Display	Some: 14.1" (358.1mm Some: 15.0" (381.0mm Some: 15.0" (381.0mm FlexView display) XGA (1024x768)) SXGA+ (1400x10	TFT color / Ac 050) TFT color	ctive Matrix / 200 nits	nits /	Access (combo • InterVid • Norton	powered by models) leo WinDVD AntiVirus (C	Sonic produc (combo mode EM edition)	cts
Graphics Graphics external	Some: ATI® Mobility™ Some: ATI Mobility RA Some: ATI Mobility RA External monitor suppor	DEON 9000 / AGP DEON 9600 / AGP	4X / 64MB DI 4X / 64MB DI	DR1 (DDR-SDRAM) DR1 (DDR-SDRAM)	,	Adobe IIBM Up	ad Utilities Reader date Conne	ctor™,15	
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM but TrackPoint® pointing dev UltraNav™ multi-pointing Illuminates the keyboard	ice, "Press-to-Sele g system / touch pa I to improve visibilit	ct," Internet So Id below keybo Iy in low-light c	croll Bar¹³, magnifying pard / Tap Zones onditions	g glass /	SoftwarSystem	ector Agent e Delivery A Migration A	ssistant	
Dimensions ³ Weight ²	14.1" models (WxDxH): 15.0" models (WxDxH): with optical drive and bat 15.0" XGA mode	13.0" x 10.6" x 1.2	-1.4"; 329mm : odel: 4.9 lb (2.2	x 268mm x 31-36mm kg);	mm;	security License (- Lotus® :	v chip) (CD not inclu SmartSuite®	•	
Case material Battery - type Battery - life ¹⁰ Architecture	Magnesium composite i Lithium Ion 6-cell / intell Up to 4.7 hr; <i>Optional 9-</i> Intel 855PM chipset / 82	n the top cover, tita gent / supports uni cell: up to 7.0 hr; 9	nium-reinforce que 2nd batte -cell plus Ultra	ed CFRP in bottom co ry in Ultrabay Slim bay Slim battery: up		Lotus N	ioles" Stario	raione Chem	
	82801DBM ICH4-M I/O Low Pin Count [LPC] int (TI® PCI4520A CardBus (security chip; PC87392 2 Type I, 2 Type II, or 1 Two USB (Version 2.0)/ RJ-11 (modem) / RJ-45	Controller Hub (ATA erface, USB, [Bluer controller, Mini PC Super I/O for diske ype III / CardBus 3 parallel / external I	A-100 EIDE, P tooth]) / PCI bu CI, external exp ette, parallel, ir 32-bit / integrat DB-15 monitor	CI bus, ethernet MAI us 2.2 32-bit, 33MHz vansion) / LPC bus 33 ifrared, [docking-bas ed door / infrared (4Mbps) /	BMHz ed ports])	ThinkPad	notebooks	implement IBN	
Video out Wireless antenna Mini PCI	S-video out port (TV out UltraConnect™ Antenna One Mini PCI type III slo) / one 4-pin indust built into the displa	ry standard co ay cover for op	nnector timal wireless signal	reception -	ThinkVan design; vi	tage™ techr	nologies and n/thinkvantage	
Intel 11b/g³² CDC Modem Bluetooth™ Ethernet Audio support	11b/g Wi-Fi ³² wireless ⁴ , M One Communications D 56K ⁶ V.90 (V.92-designe Some: Bluetooth wirele Gigabit ethernet on syst Soft audio / ICH AC97 c stereo speakers / 1 watt microphone input jack (5	fliñi PCI, Intel PRO/ aughter Card (CDC d ²⁹) modem in CDC ses technology / in C emboard / Intel 825 ontroller / DirectSo / volume up, down	Wireless 2200l C) socket / cus C / Conexant® CDC (with mod 540EP chipset und® support / , mute buttons	BG, Intel 82532 chips tomer accessible chipset lem) (MAC/PHY) / PXE AD1981B AC97 coc / internal mic /	et	Asset IDT chip ac PC 2001-ACPI 1.0I CIM and PXE 2.0-6 ENERGY	M.34 (system- cessed over compliant o and 2.0-co DMI 2.0-con compliant ´STAR®-com	specific info in network) mpliant npliant	
Security Security chip Limited warranty ¹²	Power-on password / ha IBM Embedded Securi authentication / local file 3 years/1 yr battery - Ea	rd disk password / ty Subsystem 2.0° encryption / enhar	supervisor par 33 / hardware k nces VPN secu	ssword / security key ey storage / multi-fac urity ¹⁶ / TCG-complia	tor nt	Internation 24 hour x suppor	nal Warrant 7 day18 toll-	y Service ¹⁷ free warranty warranty ¹² via	C
128MB PC2700 I 256MB PC2700 I 512MB PC2700 I 1GB PC2700 DD IBM USB Portable IBM USB 2.0 Por IBM USB 2.0 Mer CD-RW/DVD Cor ThinkPad Multi-B Second HDD Ada 40GB HS Hard D 80GB HS Hard D ThinkPad Carryin IBM 4GB Microdr IBM USB Travel K	DDR-SDRAM CL2.5 SOD DDR-SDRAM CL2.5 SOD DDR-SDRAM CL2.5 SOD R-SDRAM CL2.5 SOD e Diskette Drive table Multi-Burner Drive	0 31P9828 Thinkl 0 31P9830 T40 H 0 31P9832 Ultrab 31P9834 Thinkl 05K9276 Thinkl 22P9163 IBM 1 22P9230 IBM 1 22P9230 IBM 1 22P9230 IBM 1 62P4554 IBM M 08K9816 IBM C 09N4273 Thinkl 73P3597 Thinkl 09N4280 Thinkl 31P9490 Trackl	Pad T40 Li-lon ligh Capacity L lay Slim Li-Poly Pad Multiple B Pad 72W AC/L 1a/b/g Wireless PRO/Wireless MicroS M400 Projector 2400 Projector Pad Port Repli Pad Mini Dock II Point Cap Colli	Battery 6-cell i-lon Battery 9-cell ymer Battery 3-cell attery Charger II DC Combo Adapter s CardBus Adapter s Mini PCI Adptr II 2200BG Mini PCI aver® Security Cable	08K8214 08K8197 08K8190 22P9040 22P9010 31P9101 73P2801 73P2801 73P2582 0037A04 0039A04 74P6733 287810U 287710U 73P2698	ServicePa ServicePa ServicePa ServicePa ServicePa ServicePa Post-warragreemen ibm.cc	ac®, 22 2yr IO ac 3yr IOR 9 ac 4yr IOR 9 ac 5yr IOR 9 ac 4yr P&L I ac 5yr P&L I	R 9x5 NBD 30L919 9x5 NBD 30L919 9x5 NBD 69P919 P/U Depot 69P919	97 98 00 99 01

					Mini PCI	CDC	Finger	Bat- Bat-	Limited		
Type-model Proce	Speed essor GHz Memory	Screen Controll		Optical	Comm Bay wireless	modem/		ty tery tery	war-	Avail	
2379-R5U Pentiu 2379-R6U Pentiu 2379-R8U Pentiu 2379-R9U Pentiu • <i>The</i>	Im® M 725 1.6 256MB 14 Im M 745 1.8 256MB 14 Im M 725 1.6 512MB 15 Im M 745 1.8 512MB 15 Im M 745 1.8 512MB 15 Isse small and medium bus	.1" SXGA+ 7500 i.0" XGA 7500 i.0" XGA 7500 i.0" SXGA+ 9600 iness (SMB) mod	40HS (40HS (40HS (60U (els are pa	Combo *Ir Combo *Ir Combo *Ir Combo *Ir	tel 11b/g Wi-Fi tel 11b/g Wi-Fi tel 11b/g Wi-Fi M US Think Exp	Modem Modem Modem Mod/Blue press Progr	Finger Yes Finger Yes Fam	7.2 hr 9 5.0 hr 6 5.0 hr 6 5.9 hr 9	3 yr (3 yr (Oct 04 Oct 04 Oct 04	
Positioning	Perfect balance of perfori				•	1470 4 7 70			14		
Processor L2 cache Memory	Intel® Pentium® M Proce with enhanced Intel Spee 2MB / on die (at processe 256MB or 512MB std / 20 two 200-pin SO-DIMM sc	ssor 725 (1.6GH dStep™ technolo or speed) / ECC GB max ⁷ / PC270	z) or 745 gy¹ and 4 0 333MH	(1.8GHz) 100MHz sys Iz DDR1 / n	etem bus on-parity / CL2.		Windows XP - Microsoft® V Professiona ⇒ Disk-to-Disk	Vindows® X I ²⁰ (Service Recovery	n al P Pack 2))	
Diskette drive Combo Ultrabay Slim Disk	None standard / use optic DVD-ROM/CD-RW / 24X, One modular bay for intel 40GB ⁸ HS (5400 rpm) or removable, upgradable / 9 Hard Disk Drive Shock A	'24X/24X/8X ²¹ sp changeable devi 60GB Ultra HS (9.5mm high bay /	eed / rem ces (right 7200 rpm supports	novable from side) / 9.5m n) / 9.5mm s 2nd disk ir	nm high bay nigh / i Ultrabay Slim /		(in hidden p Preloaded IBM Rescue Access IBM Access Con Norton Anti\	and Reco	very™	of	
Display	Some: 14.1" (358.1mm) Some: 14.1" (358.1mm) Some: 15.0" (381.0mm) Some: 15.0" (381.0mm) FlexView display	SXGA+ (1400x1 XGA (1024x768) SXGA+ (1400x1 with wide viewing	050) TFT TFT colo 050) TFT angle an	color / Act or / Active I color / Act d high dens	ive Matrix / 150 Matrix / 200 nits ive Matrix / 200 ity using IPS te	nits / chnology	virus definiti PC-Doctor™ ThinkPad Ut Adobe Read IBM Update IBM Record	i É tilities der Connector		etter	
Graphics	Some: ATI® Mobility™ R Some: ATI Mobility RAD					MVI)	Access pow (combo mod	ered by So dels)	nic proc	ducts	
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM butt TrackPoint® pointing devic UltraNav™ multi-pointing Illuminates the keyboard	e, "Press-to-Sele system / touch pa	ct," Interi ad below	net Scroll B keyboard /	ar¹³, m̀agnifying Tap Zones		 InterVideo V IBM Fingerp (fingerprint I IBM Client S 	VinĎVD (co orint Softwa models)	re		
Dimensions ³	14.1" models (WxDxH): 1 15.0" models (WxDxH): 1	2.2" x 10.0" x 1.0 3.0" x 10.6" x 1.2)-1.2"; 31)-1.4": 329	1mm x 255	mm x 26.6-31.4	mm;	security chip Downloadabl	,			
Weight ²	with optical drive and batte 14.1" SXGA+: 5.4 II	ery: 14.1" XGA m	odels: 4.9	lb (2.2kg);			IBM Director Agent				
Case material Battery - type Battery - life ¹⁰	Magnesium composite in Lithium Ion 6- or 9-cell / ii 6-cell: up to 4.9 hr; 9-cell.	the top cover, tita ntelligent / suppo	anium-rei rts unique	nforced CF e 2nd batte	RP in bottom co y in Ultrabay SI	ver im	• System Mig License (CD - Lotus® Sma	ration Assis	stant d)	n and	
Architecture PC Card Std slots Ports	Intel 855PM chipset / 828 ICH4-M I/O Controller Hu [LPC] interface, USB, [Bli (TI® PCI4520A CardBus (security chip; PC87392 S 2 Type I, 2 Type II, or 1 Ty Two USB (Version 2.0) / r	b (ATA-100 EIDE uetooth], [fingerpi controller, Mini PC Super I/O for disk pe III / CardBus	, PCI bus int]) / PC CI, extern ette, para 32-bit / in	s, ethernet I I bus 2.2 32 al expansionallel, infrarected tegrated do	MAC, Low Pin C 2-bit, 33MHz n) / LPC bus 33 d, [docking-base or	ount BMHz	Lotus Notes® Stand-alo			nt	
	RJ-11 (modem) / RJ-45 (S-video out port (TV out) UltraConnect™ Antenna I	one 4-pin indus	try standa ay cover	ard connector	or wireless signal	,	ThinkPad note ThinkVantage design; visit ik	™ technolo	gies an	d	
• .	One Mini PCI type III slot 11b/g Wi-Fi³² wireless⁴, Mi One Communications Da 56K⁶ V.90 (V.92-designed Some: Bluetooth wireless Gigabit ethernet on syste Soft audio / ICH AC97 co stereo speakers / 1 watt / microphone input jack (3. Power-on password / har IBM Embedded Security some: Fingerprint read can replace multiple pass	ni PCI, Intel PRO ughter Card (CD 2º) modem in CD s technology / in mboard / Intel 82 ntroller / DirectSo volume up, dowr 5 mm; pink) / hea d disk password / y Subsystem 2.0 er on palm rest. twords / UPEK® T	Wireless C) socket C / Cone: CDC (with 540EP chands super change super change supervis (33 / hardw/swipe sec CD41B c	2200BG, Ir / customer kant® chips h modem) hipset (MAC port / AD1 uttons / inte ack (3.5 mr or passwor ware key stoensor / integent of the controller with a chipsel of the chipsel	tel 82532 chipse accessible et C/PHY) / PXE 981B AC97 cod rnal mic / n; green) d security keyl rage / TCG-cor grated with secu	ec / nole npliant urity chip /	Universal 72 v Asset ID ^{TM,34} (chip access PC 2001-com ACPI 1.0b and CIM and DMI PXE 2.1-com IBM ImageUlt International v 24 hour x 7 da support dur 800-IBM-SE	system-spe sed over ne pliant d 2.0-comp 2.0-compli pliant ra™ Servic Warranty So ay¹8 toll-free ing the wai	ecific info twork) liant ant es avail ervice ¹⁷ warrar ranty ¹² v	able nty	
	2 3 years/1 yr battery - Eas		-				ServicePac®, 2	2 2yr IOR 9			
256MB PC2700 512MB PC2700 1GB PC2700 DE IBM USB Portab IBM USB 2.0 Po IBM USB 2.0 Mc CD-RW/DVD Co ThinkPad Multi-E Second HDD Ad 40GB HS Hard E 80GB HS Hard E SonyEricsson® G IBM M400 Project		31P9830 T40 31P9832 Ultra 31P9834 Thin 05K9276 Thin 22P9163 IBM 22P9230 IBM 73P3288 Intel 73P3294 IBM 62P4554 Thin 08K9816 Thin 09N4273 Thin 26K3393 Thin 0037A04 Thin	High Cap bay Slim kPad 72V kPad 72V kPad 72V 11a/b/g V 11a/b/g V PRO/Wir Enh Perf kPad Por kPad Min kPad Doo kPad Car kPad Car	Li-Polymer V AC Adapt V AC/DC C Vireless Ca Vireless Mireless S Vireless K t Replicator i Dock ck II rrying Case rying Case	Battery 9-cell Battery 3-cell er ombo Adapter rdBus Adapter ni PCI Adptr II BG Mini PCI ybd and Mouse II - BackPack - Leather	31P9101 73P4301 73P2801 73P4067 74P6733 287810U 287710U 73P3599 73P3600	ServicePac 49 ServicePac 49 ServicePac 49 ServicePac 59 Post-warranty agreements a ibm.com/s	yr IOR 9x5 yr IOR 9x5 yr P&L P/U yr P&L P/U annual ma t ervices/its/	NBD 30L NBD 69P NBD 69P Depot 69P Depot 69P intenan		
IBM C400 Project	ctor	0039A04 Othe	r options	at ibm.co r	n/pc/us/accesso	ories	maspspleu	.рат			

					Mini PCI	CDC					
Type-model Proces	Speed ssor GHz Memory		aphics Di ntroller G		Comm Bay wireless	moden	n/ Security h™ chip P	reload	Limited warranty	Avai date	
2373-3VU Pentiur	n [®] M 735 1.7 512MB 14 n M 735 1.7 512MB 14 n M 735 1.7 512MB 15	4.1" SXGA+ 9	9600 80	HS DVD-RW		Fi Modem	Yes X	P Pro	EasyServ EasyServ EasyServ	May 200	
These school This m	2373 has an EasyServ ⁿ educational models of the organized and operate odel for education is for odel or models for education education is for odel or models for education	ne ThinkPad n d exclusively sale direct fro	otebook for educa m IBM oi	are available itional purpos through an <i>i</i>	only to public or poses for use by qual Authorized Educati	rivate K-12 ified studen on Reseller	ts and/or te :				
Positioning	Perfect balance of perfe				, ,	lon or marvi		SOF	FIA/A D E 14		
Processor L2 cache Memory	Intel® Pentium® M Prowith enhanced Intel Sp. 2MB / on die (at proces 512MB std / 2GB max ⁷	cessor 735 (1 eedStep™ tec ssor speed) / E / PC2700 333	i. 7GHz) hnology¹ ECC 3MHz DD	and 400MHz	system bus DRAM) / non-parity		Windows - Microsof - Professio	XP Pro t® Wind onal ²⁰	dows® XP		
Diskette drive Combo DVD-RW Ultrabay Slim Disk	two 200-pin SO-DIMM None standard / use op Some: DVD-ROM/CD-Some: CD-RW/DVD-R One modular bay for in: 40GB ⁸ HS (5400 rpm) 9.5mm high bay / suppl IBM Hard Disk Drive S	otional USB-ba RW / 24X/24X W Multi-Burne terchangeable or 80GB HS (9 orts 2nd disk v	ased disk (/24X/8X ² er / remove devices 5400 rpm with option	ette drive 1 speed / ren 2 speed / ren 2 speed / ren 2 speed / ren 3 speed / ren 4 speed / ren 4 speed / ren 5 speed / ren 6 speed / ren 7 speed / ren 7 speed / ren 7 speed / ren 7 speed / ren 8 speed / ren 7 speed / ren 8 speed / ren 8 speed / ren 8 speed / ren 9 speed /	novable from Ultrab trabay Slim 9.5mm high bay gh / removable, up apter in Ultrabay Sl	oay™ Slim gradable /	• Educatio Vital Sou vitalsour	n prote n softv rce Te ce KE\ Portal	ected área) vare from chnologies	®• <u>•</u>	
Display	·	n) SXGÀ+ (14 n) SXGA+ (14 y with wide vi	00x1050 00x1050 ewing an) TFT color /) TFT color / gle and high	Active Matrix / 150 Active Matrix / 200 density using IPS	0 nits 0 nits / technology	Access 0IBM ResIBM Rec Access p	Connection cue ar ordNO oowere	d Recover	ve Letter products	
Graphics external	Some: ATI® Mobility™ Some: ATI Mobility RA External monitor suppor	ADEON 9600	/ AGP 4)	(/ 64MB DD	R1 (DDR-SDRAM))	 InterVide DVD-RW InterVide 	o Winl mode	DVD (comb els)	00,	
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM bu TrackPoint® pointing dev UltraNav™ multi-pointin Illuminates the keyboar	vice, "Press-to g system / too d to improve v	o-Select," uch pad b visibility ir	Internet Screelow keyboan low-light co	oll Bar ¹³ , magnifyin rd / Tap Zones nditions	g glass /	(DVD-RVNorton APC-DoctThinkPage	V mod IntiViru or™ d Utiliti	els) ıs (OEM ed		
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models (WxDxH) 15.0" models (WxDxH) with optical drive and battle Magnesium composite Lithium Ion 6-cell / intel Up to 4.5 hr; Optional 9	: 13.0" x 10.6" httery: 14.1 XG 14.1" SXGA+ in the top cov ligent / suppo	' x 1.2-1.4 GA model: · model: 5 er, titaniu rts uniqu	4"; 329mm x 4.9 lb (2.2kg) i.0 lb (2.3kg); m-reinforced e 2nd battery	268mm x 31-36mn); <i>15.0" model:</i> 5.8 CFRP in bottom c in Ultrabay Slim	n lb (2.7 kg) over	Software Delivery Assistant System Migration Assistant IBM Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium a Lotus Notes® Stand-alone Clien				
Architecture PC Card Std slots	Intel 855PM chipset / 8 82801DBM ICH4-M I/O Low Pin Count [LPC] in (TI® PCI4520A CardBu (security chip; PC8739; 2 Type II, or 1 Two USB (Version 2.0)	Controller Hu terface, USB, s controller, M 2 Super I/O fo Type III / Card	ub (ATA-1 [Bluetoo lini PCI, e r diskette dBus 32-b	00 EIDE, PC th]) / PCI bus external expa , parallel, info it / integrate	I bus, ethernet MA 2.2.32-bit, 33MHz nsion) / LPC bus 3 ared, [docking-bas d door	z 33MHz sed ports])					
Ports	RJ-11 (modem) / RJ-45	5 (ethernet) / r	no keyboa	ard or mouse	or serial ports (us	e USB)	ThinkVanta design; vis				
Video out Wireless antenna Mini PCI Intel 11b/g³² CDC Modem Bluetooth™ Ethernet Audio support	S-video out port (TV ou UltraConnect™ Antenna One Mini PCI type III sl 11b/g Wi-Fi³² wireless⁴, One Communications I 56K° V.90 (V.92-designa None Gigabit ethernet on sys Soft audio / ICH AC97 stereo speakers / 1 wat	a built into the ot (Communic Mini PCI, Intel Daughter Carced ²⁹) modem itemboard / International frontroller / Director of the controller / Director of the other of the oth	display of cations Ball PRO/Wid (CDC) stin CDC / tel 82540	cover for optilicay) / customereless 2200B cocket / custo Conexant® cl DEP chipset (d® support / /	mal wireless signal or upgradable G, Intel 82532 chip mer accessible hipset MAC/PHY) / PXE AD1981B AC97 co	oset	Universal 7 Asset IDTM chip acc PC 2001-c ACPI 1.0b CIM and D PXE 2.0-cc IBM Image Internation	34 (sys essed complia and 2.0 MI 2.0 complia eUltra™	tem-specificover network ont 0-compliar -compliant nt 1 Services	c info in ork) nt available	
Security Security chip	microphone input jack (Power-on password / ha IBM Embedded Secur	3.5 mm; pink) ard disk passv ity Subsyste) / headpl word / su _l m 2.0 33 /	none jack (3.5 pervisor pass hardware ke	5 mm; green) sword / security key / storage / multi-fac	ctor	24 hour x 7 support 800-IBM	7 day ¹⁸ during -SER\	toll-free warrar the warrar (426-7378	arranty ity ¹² via 3)	
Limited warranty ¹²	authentication / local file 3 years/1 yr battery - E	- ,			,		ServicePa			30L9190	
128MB PC2700 I 256MB PC2700 I 512MB PC2700 D 1GB PC2700 DD IBM USB 2.0 Por IBM USB 2.0 Mer CD-RW/DVD Cor ThinkPad Multi-B Second HDD Ada 40GB HS Hard D 80GB HS Hard D	DDR-SDRAM CL2.5 SO DDR-SDRAM CL2.5 SO DDR-SDRAM CL2.5 SO DDR-SDRAM CL2.5 SOD R-SDRAM CL2.5 SOD e Diskette Drive table Multi-Burner Drive	D 31P9828 D 31P9830 D 31P9830 D 31P9832 31P9834 05K9276 22P9163 22P9230 e 73P3288 9 73P3294 62P4554 08K9816 09N4273	ThinkPac T40 High Ultrabay ThinkPac IBM 11a/ Intel PRC Kensingtr ThinkPac ThinkPac ThinkPac	T40 Li-Ion E Capacity Li- Slim Li-Polyn T2W AC/DC b/g Wireless b/g Wireless b/Wireless 22 bn® MicroSav I Port Replica I Mini Dock I Dock II ot Cap Collect	battery 6-cell lon Battery 9-cell ner Battery 3-cell c Combo Adapter CardBus Adapter Mini PCI Adptr II 100BG Mini PCI yer® Security Cable stor II	08K8214 08K8197 08K8190 22P9010 31P9101 73P4301 73P2801 673P2582 74P6733 287810U 287710U 73P2698	ServicePa ServicePa ServicePa ServicePa ServicePa Post-warra agreematibm.coi maspsp	c 4yr loc 5yr loc 4yr F c 4yr F c 5yr F anty ants at m/serv	OR 9x5 NE OR 9x5 NE P&L P/U De P&L P/U De nual maint rices/its/us/	30L9197 5D 69P9198 D 69P9200 epot 69P9199 epot 69P9201 enance	

Type-model Proce	Speed ssor GHz Memory		raphics ontroller		Optical	Mini PCI Comm Bay wireless		n/ Security h™ chip		Limited warranty	Avail date		
2374-6VU Pentiur 2374-3VU Pentiur 2374-3XU Pentiur	m [®] M 735 1.7 512MB 1 m M 735 1.7 512MB 1 m M 735 1.7 512MB 1	4.1" XGA 4.1" SXGA+ 5.0" SXGA+	7500 9600 9600	40HS 80HS 40HS	Combo DVD-RW Combo	*Intel 11b/g Wi-Fi *Intel 11b/g Wi-Fi *Intel 11b/g Wi-Fi	32 Modem Modem	Yes Yes	XP Pro XP Pro XP Pro	Onsite Onsite Onsite	May 2004 May 2004 May 2004		
These	2374 has a limited ons educational models of t sorganized and operate	he ThinkPad	notebo	ok are	available	only to public or pri							
Positioning Processor	Perfect balance of perf Intel® Pentium® M Pro	cessor 735	(1.7GH:	z)	•	•				WARE ¹⁴			
L2 cache Memory	with enhanced Intel Sp 2MB / on die (at proces 512MB std / 2GB max two 200-pin SO-DIMM	ssor speed) / / PC2700 3	/ ECC 33MHz	DDR1	(DDR-SD	PRAM) / non-parity /	CL2.5 / available	Windows - Microso Profess ♦ Disk-to-	oft® Windo ional ²⁰ ·Disk Red	ows® XP			
Diskette drive Combo DVD-RW Ultrabay Slim Disk	None standard / use of Some: DVD-ROM/CD-Some: CD-RW/DVD-R One modular bay for in 40GB ⁸ HS (5400 rpm) 9.5mm high bay / supp IBM Hard Disk Drive:	RW / 24X/24 W Multi-Burn terchangeab or 80GB HS orts 2nd disk	4X/24X/aner / rer ble device (5400 received)	8X ²¹ sp novabl ces (rig pm) / s otional	beed / reme from Ult ht side) / 9.5mm hig HDD Ada	rabay Slim 9.5mm high bay gh / removable, upg pter in Ultrabay Slir	radable /	(in hidden protected area) Preloaded Education software from Vital Source Technologies®:					
Display	Some: 14.1" (358.1mr Some: 14.1" (358.1mr Some: 15.0" (381.0mr FlexView displa	n) SXGA+ (1 n) SXGA+ (1	1400x10 1400x10)50) TF)50) TF	FT color / FT color /	Active Matrix / 150	nits /		scue and cordNOV powered	d Recover V and Driv I by Sonic	ve Letter products		
Graphics external	- ''	ADEON 960 rt via analog	0 / AGP DB-15 c	4X / 6 onnect	or / up to	R1 (DDR-SDRAM) 2048x1536x16.7M /	DDC2B	InterViol DVD-R\InterViol	leo WinD V models leo WinD	s) VD Creat	oo,		
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM b TrackPoint® pointing de UltraNav™ multi-pointir Illuminates the keyboa	vice, "Press- ng system / t	to-Sele ouch pa	ct," Into	ernet Scro w keyboa	oll Bar¹³, magnifying rd / Tap Zones		(DVD-RNortonPC-DocThinkPa	ctor™	(OEM ed	dition)		
Dimensions ³ Weight ²	14.1" models (WxDxH, 15.0" models (WxDxH, with optical drive and b): 13.0" x 10. attery: <i>14.1 X</i>	6" x 1.2 [.] (GA mod	-1.4"; 3 del: 4.9	329mm x 2 1 lb (2.2kg	268mm x 31-36mm		AdobeIBM UpDownloa	date Cor dable		5		
Case material Battery - type Battery - life ¹⁰	Magnesium composite Lithium Ion 6-cell / inte Up to 4.5 hr; Optional 9	in the top co lligent / supp	over, tita orts uni	nium-r ique 2r	einforced nd battery	CFRP in bottom co in Ultrabay Slim	ver	Software Delivery Assistant System Migration Assistant IBM Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client					
Architecture PC Card Std slots Ports	Intel 855PM chipset / 8 82801DBM ICH4-M I/C Low Pin Count [LPC] ir (TI® PCI4520A CardBu (security chip; PC8739 2 Type I, 2 Type II, or 1 Two USB (Version 2.0) RJ-11 (modem) / RJ-4	O Controller Interface, USI is controller, 2 Super I/O Type III / Ca / parallel / e	Hub (ATA B, [Bluet Mini PC for diske IrdBus 3 xternal l	A-100 tooth]) I, exte ette, pa 32-bit / DB-15	EIDE, PC / PCI bus rnal expa rallel, infr integrated monitor /	I bus, éthernet MAC 2.2 32-bit, 33MHz nsion) / LPC bus 33 ared, [docking-base I door infrared (4Mbps) /	BMHz ed ports])						
Video out Wireless antenna Mini PCI Intel 11b/g³² CDC Modem Bluetooth™ Ethernet	S-video out port (TV or UltraConnect™ Antenn One Mini PCI type III s 11b/g Wi-Fi ³² wireless⁴, One Communications 56K ⁶ V.90 (V.92-design None Gigabit ethernet on sys	a´built into th lot (Commur Mini PCI, Int Daughter Ca ed ²⁹) moden	ne displanications tel PRO Ind (CDO In in CDO	ay cove s Bay) Wirele C) sock C / Cor	er for optir / custome ess 2200B eet / custo nexant® ch	nal wireless signal i r upgradable G, Intel 82532 chips mer accessible nipset							
Audio support Security Security chip	Soft audio / ICH AC97 stereo speakers / 1 wa microphone input jack Power-on password / h IBM Embedded Secu authentication / local fi	tt / volume u (3.5 mm; pin ard disk pas rity Subsyst	p, down k) / hea sword / t em 2.0 3	, mute dphone superv 33 / har	buttons / e jack (3.5 visor pass dware key	internal mic / 5 mm; green) word / security keyl v storage / multi-fact	nole	ThinkPad ThinkVan design; vi	tage™ te sit ibm.c 72 watt /	chnologie com/think AC adapte	es and vantage er		
Limited warranty ¹²		nited onsite	servic	e ²⁴ , 8 a	am - 5 pm			Asset ID ^T chip ac PC 2001-	cessed c	ver netwo			
256MB PC2700 I 512MB PC2700 D 1GB PC2700 DD IBM USB Portabl IBM USB 2.0 Por IBM USB 2.0 Me CD-RW/DVD Cor	table Multi-Burner Drive	D 31P9830 D 31P9832 31P9834 05K9276 22P9163 22P9228 /e 73P3288	T40 H Ultrab Thinkf IBM 1 IBM 1 Intel P IBM E	igh Ca ay Slin Pad 72 1a/b/g 1a/b/g PRO/W nh Per	pacity Li-l n Li-Polym W AC/DC Wireless Wireless ireless 22	on Battery 9-cell (ner Battery 3-cell (Combo Adapter 2 CardBus Adapter 3 Mini PCI Adptr II 0 00BG Mini PCI 5 Kybd and Mouse 7	31P9101 73P4301 73P2801	ACPI 1.0I CIM and PXE 2.0- ENERGY IBM Imag Internatio 24 hour x suppor	o anḋ 2.0 DMI 2.0-c complian STAR®-c leUltra™ nal Warra 7 day¹8 t t during t	l-compliar compliant t compliant Services anty Serv	available ice ¹⁷ arranty nty ¹² via		
Second HDD Ada 40GB HS Hard D 80GB HS Hard D	urner Oll abdy Sill if Driv apter for Ultrabay Slim visk 9.5mm (5400 rpm) visk 9.5mm (5400 rpm) vre Leather Carrying Cas	62P4554 08K9816 09N4273	Thinkf Thinkf TrackF	Pad Mi Pad Do Point C	ni Dock ock II ap Collec	2	287810U 287710U 73P2698		nts at	ual maint			

Type-model Prod	Speed cessor GHz Memory S	Graphics Disk Screen controller GB ⁸ C	Mini PCI Comm Bay Optical wireless		Security chip Battery ™ cells P	Workhors or Globa reload or Entry	ıl (Ġ) Avail					
2373-GUU Pentiur 2373-GTU Pentiur 2373-GRU Pentiur 2373-KTU Pentiur	m M 745 1.8 1GB 14. m M 745 1.8 512M 14. m M 745 1.8 512M 14. m M 755 2.0 1GB 14.	1" SXGA+ FireGL 60U Co 1" SXGA+ FireGL 60U Do 1" SXGA+ FireGL 60U Do 1" SXGA+ FireGL 60U Do 1" SXGA+ FireGL 60U Do 1" SXGA+ FireGL 60U Co	VD-RW 11a/b/g Wi-Fi VD-RW	i ³² Mod/Blue Mod/Blue	e Yes 9 e Yes 9 e Yes 9 e Yes 9	XP Pro No XP Pro No XP Pro No XP Pro No XP Pro No XP Pro No	May 2004 May 2004 May 2004 May 2004 May 2004 May 2004					
Positioning Processor L2 cache Memory	Intel® Pentium® M Proc with enhanced Intel Spe 2MB / on die (at process 512MB or 1GB std / 2GI	rmance and portability; two essor 745 (1.8GHz) or 755 edStep™ technology¹ and 4 sor speed) / ECC B max² / PC2700 333MHz l DIMM sockets / std mem ir	5 (2.0GHz) 400MHz system bus DDR1 (DDR-SDRAM) / no	n-parity /	Windows XP F - Microsoft® W Professional	indows® XP						
Diskette drive Combo DVD-RW Ultrabay Slim Disk	None standard / use opt Some: DVD-ROM/CD-R Some: CD-RW/DVD-RV One modular bay for inte 60GB* Ultra HS (7200 r 9.5mm high bay / suppo	ional USB-based diskette of the country of the coun	drive ed / removable from Ultrab from Ultrabay Slim t side) / 9.5mm high bay ble and upgradable / IDD Adapter in Ultrabay Sl	pay™ Slim								
Display Graphics	14.1" (358.1mm) SXGA ATI® Mobility™ FireGL™	+ (1400x1050) TFT color / MT2 / AGP 4X / 128MB DD	Active Matrix / 150 nits DR1 / OpenGL® support		(combo modeInterVideo WNorton AntiV	els) inDVD (comb	o models)					
Graphics external Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM but TrackPoint® pointing dev UltraNav™ multi-pointing	via analog DB-15 connector ton / palm rest / pitch: 19m ice, "Press-to-Select," Inter g system / touch pad below I to improve visibility in low-	m; stroke: 2.5mm (std-size net Scroll Bar ¹³ , magnifyin keyboard / Tap Zones	keys) g glass /	 PC-Doctor™ ThinkPad Uti Adobe Read IBM Update Downloadable	er Connector™,¹⁵						
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	with optical drive and bat Magnesium composite i Lithium Ion 9-cell / intell	12.2" x 10.0" x 1.0-1.2"; 31 tery: 5.4 lb (2.4kg) n the top cover, titanium-rei igent / supports unique 2nchr; 9-cell plus Ultrabay Slin	inforced CFRP in bottom c d battery in Ultrabay Slim	over								
Architecture PC Card Std slots Ports	82801DBM ICH4-M I/O Low Pin Count [LPC] int (TI® PCI4520A CardBus (security chip; PC87392 2 Type I, 2 Type II, or 1 T Two USB (Version 2.0) /	2855PM Memory Controller Controller Hub (ATA-100 El erface, USB, [Bluetooth]) / controller, Mini PCI, extern Super I/O for diskette, para ype III / CardBus 32-bit / in parallel / external DB-15 m (ethernet) / no keyboard or	IDE, PCI bus, ethernet MA PCI bus 2.2 32-bit, 33MHz nal expansion) / LPC bus 3 allel, infrared, [docking-bas itegrated door nonitor / infrared (4Mbps) /	.C, :: :3MHz :sed ports]) :e USB)								
Video out Wireless antenna Mini PCI Intel 11b Wi-Fi ³² Intel 11b/g ³² 11a/b/g Wi-Fi ³² CDC Modem Bluetooth™ Ethernet Audio support	S-video out port (TV out UltraConnect™ Antenna One Mini PCI type III slc Some: 11b Wi-Fi³² wirel 802.11b, Intel 8.5 me: 11b/g Wi-Fi³² wirel Intel 82532 chips Some: 11a/b/g Wi-Fi³² v One Communications D 56K° V.90 (V.92-designe Bluetooth wireless techr Gigabit ethernet on syst Soft audio / ICH AC97 c stereo speakers / 1 watt) / one 4-pin industry stand built into the display cover to (Communications Bay) / cess ⁴ , Mini PCI, Intel PRO/2531 chipset eless ⁴ , Mini PCI, Intel PRO/set vireless ⁴ , Mini PCI, Atheros aughter Card (CDC) socked d ²⁹) modem in CDC / Cone lology / in CDC (with mode emboard / Intel 82540EP controller / DirectSound ⁹ suf / volume up, down, mute b	ard connector for optimal wireless signal customer upgradable Vireless 2100 Network Con /Wireless 2200BG,	reception –	ThinkPad notebooks implement IBM ThinkVantage™ technologies and design; visit ibm.com/thinkvantage Universal 72 watt AC adapter Asset ID™.34 (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant PXE 2.0-compliant ENERGY STAR®-compliant IBM ImageUltra™ Services available International Warranty Service17 24 hour x 7 day¹8 toll-free warranty support during the warranty¹²							
Security Security chip Limited warranty ¹²	Power-on password / ha IBM Embedded Securi authentication / local file	8.5 mm; pink) / headphone jrd disk password / supervisity Subsystem 2.033 / hardvencryption / enhances VPl syServ ^{TM,19} onsite pickup ar	sor password / security key ware key storage / multi-fac N security ¹⁶ / TCG-complia	ctor	The Ultrabay S standard or c combo drive optional DVE optional second	optional CD-R or DVD-RW d)						
256MB PC2700 ID 512MB PC2700 ID 1GB PC2700 DI IBM USB Portable IBM USB 2.0 Con IBM USB 2.0 Mer CD-RW/DVD Con ThinkPad Multi-BI Second HDD Ada 40GB HS Hard D ThinkPad Carryin ThinkPad Carryin IBM 4GB Microdr IBM Enh Perf Wir	nbo Drive table Multi-Burner Drive nory Key 512MB nbo II Ultrabay Slim Drive urner Ultrabay Slim Drive apter for Ultrabay Slim isk 9.5mm (5400 rpm) isk 9.5mm (5400 rpm)	31P9830 T40 High Capa 31P9832 Ultrabay Slim I 73P9834 ThinkPad Mult 73P4515 ThinkPad 72W 22P9163 IBM 11a/b/g W 73P3284 IBM 11a/b/g W 73P3294 SonyEricsson® 62P4554 IBM M400 Pro 08K9816 GemPC400 Sr 73P3690 ThinkPad Mini 73P3597 ThinkPad Mon 73P4067 TrackPoint Cap	Li-Polymer Batterý 3-cell iple Battery Charger II / AC Adapter / AC/DC Combo Adapter /ireless CardBus Adapter /ireless Mini PCI Adptr II eless 2200BG Mini PCI GC83 EDGE PC Card jector mart Card Reader/Writer Replicator II pock k II elitor Stand 2001	08K8214 08K8197 08K8190 22P9040 02K6699 22P9010 31P9101 73P4301 73P2801 26K3393 0037A04 31P8901 74P6733 287810U 22P5265 73P2698	 optional HDE optional trave ServicePac 3y ServicePac 4y ServicePac 4y ServicePac 5y ServicePac 5y ServicePac 4y ServicePac 5y 	Dadapter (for el bezel 2yr IOR 9x5 NBI r IOR 9x5 NBI r IOR 9x5 NBI r IOR 9x5 NBI r P&L P/U Del annual mainte	NBD 30L9190 D 30L9197 D 69P9198 D 69P9200 pot 69P9199 pot 69P9201					

Time model - Bree	Speed	Graphics Disk	Mini PCI Comm Bay	CDC modem/	Security Workhorse (W) chip Battery or Global (G) Avail cells Preload or Entry (E) date			
2373-HVU Pentiur 2373-HTU Pentiur 2373-KXU Pentiur	m M 745	JXGA FireGL 60U Combo JXGA FireGL 60U DVD-RV JXGA FireGL 60U DVD-RV JXGA FireGL 60U DVD-RV JXGA FireGL 60U Combo		Mod/Blue Mod/Blue Mod/Blue Mod/Blue 32 Mod/Blue	e Yes 9 XP Pro May 2004 e Yes 9 XP Pro G May 2004 e Yes 9 XP Pro May 2004			
Positioning Processor L2 cache Memory Diskette drive Combo DVD-RW Ultrabay Slim Disk	Intel® Pentium® M Procewith enhanced Intel Speed 2MB / on die (at processor 1GB std / 2GB max² / PC: two 200-pin SO-DIMM soon None standard / use optic Some: DVD-ROM/CD-RW Some: CD-RW/DVD-RW One modular bay for inter 60GB® Ultra HS (7200 rps	nance and portability; two-spin ssor 745 (1.8GHz) or 755 (2.0 dStep™ technology¹ and 400M r speed) / ECC 2700 333MHz DDR1 (DDR-SE ckets / std mem in one socket nal USB-based diskette drive // 24X/24X/24X/8X²¹ speed / i Multi-Burner / removable from changeable devices (right side m) / 9.5mm high / removable a s 2nd disk with optional HDD /	GHz) IHz system bus DRAM) / non-parity / 0 / one socket available removable from Ultral Ultrabay Slim e) / 9.5mm high bay nd upgradable /	e bay™ Slim	SOFTWARE¹⁴ Windows XP Professional - Microsoft® Windows® XP Professional²⁰ ♦ Disk-to-Disk Recovery (in hidden protected area) Preloaded • Access IBM • Access Connections • IBM Rescue and Recovery™			
Display Graphics Graphics external Keyboard TrackPoint® Touch pad ThinkLight™ Dimensions³ Weight² Case material Battery - type	IBM Hard Disk Drive Sho 15.0" (381.0mm) UXGA (FlexView display with wide ATI® Mobility™ FireGL™ External monitor support v 87-key / Access IBM buttor TrackPoint® pointing device UltraNav™ multi-pointing silluminates the keyboard to 15.0" models (WxDxH): 1 with optical drive and batter Magnesium composite in Lithium Ion 9-cell / intellige	ock Absorber / IBM Active Proceedings of the Process of the Proces	e Matrix / 200 nits / ity using IPS technologopenGL® support to 2048x1536x16.7M roke: 2.5mm (std-size coroll Bar¹³, magnifyir loard / Tap Zones conditions x 268mm x 31-36mr	ogy / DDC2B e keys) g glass /	 IBM RecordNOW and Drive Letter Access powered by Sonic products (combo models) InterVideo WinDVD (combo models) Norton AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities Adobe Reader IBM Update Connector™.15 Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant IBM Client Security Software (for security chip) 			
Ports	Intel 855PM chipset / 828 82801DBM ICH4-M I/O C Low Pin Count [LPC] intel (TI* PCI4520A CardBus of (security chip; PC87392 S 2 Type I, 2 Type II, or 1 Tyl Two USB (Version 2.0) / p RJ-11 (modem) / RJ-45 (e	r; 9-cell plus Ultrabay Slim battle 55PM Memory Controller Hub ontroller Hub (ATA-100 EIDE, face, USB, [Bluetooth]) / PCI to controller, Mini PCI, external ex- luper I/O for diskette, parallel, pe III / CardBus 32-bit / integra arallel / external DB-15 monito ethernet) / no keyboard or mou	(MCH-M) / PCI bus, ethernet MA bus 2.2 32-bit, 33MH; pansion) / LPC bus 3 infrared, [docking-bas ted door or / infrared (4Mbps) / ise or serial ports (us	z 33MHz sed ports])	License (CD not included) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client ThinkPad notebooks implement IBM ThinkVantage™ technologies and design; visit ibm.com/thinkvantage			
Intel 11b/g ³² 11a/b/g Wi-Fi ³² CDC Modem Bluetooth™ Ethernet Audio support	UltraConnect™ Antenna b One Mini PCI type III slot Some: 11b Wi-Fi³² wirele: 802.11b, Intel 825 Some: 11b/g Wi-Fi³² wirel Intel 82532 chipse Some: 11a/b/g Wi-Fi³² wir One Communications Dat 56K° V.90 (V.92-designed Bluetooth wireless techno Gigabit ethernet on syster Soft audio / ICH AC97 cor stereo speakers / 1 watt / microphone input jack (3.8	ess⁴, Mini PCI, Intel PRO/Wire teless⁴, Mini PCI, Atheros™ AF sughter Card (CDC) socket / cu teless⁴, Mini PCI, Atheros™ AF sughter Card (CDC) socket / cu teless⁴, Mini PCI, Atheros™ AF sughter Card (CDC) socket / cu teless⁴, Mini PCI, Atheros™ AF sughter teless⁴, Mini PCI, Atheros™ AT sughter teless⁴, Mini PCI, Intel PRO/Wire teless⁴, Mini PCI, Atheros™ AT sughter teless⁴, Mini PCI, Intel PRO/Wire teless⁴, Mini PCI, Atheros™ AT sughter teless⁴, Mini PCI, Intel PRO/Wire teless⁴, Mini PCI, Atheros™ AF sughter teless⁴, Mini PCI, Intel PRO/Wire teless⁴, Mini PCI, Atheros™ AF sughter teless⁴, Mini P	nnection dec /	Universal 72 watt AC adapter Asset IDTM.34 (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant PXE 2.0-compliant ENERGY STAR®-compliant IBM ImageUltraTM Services available International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free warranty support during the warranty ¹² via 800-IBM-SERV (426-7378)				
	IBM Embedded Security authentication / local file e 3 years/1 yr battery - Eas	I disk password / supervisor pa Subsystem 2.0 ³³ / hardware ncryption / enhances VPN sec yServ ^{TM,19} onsite pickup and de	key storage / multi-fa curity ¹⁶ / TCG-complia livery / service upgra	ctor ant des ²² avail	The Ultrabay Slim supports: standard or optional CD-RW/DVD combo drive or DVD-RW drive optional DVD optional second battery optional HDD adapter (for 2nd disk)			
256MB PC2700 ID 512MB PC2700 ID 1GB PC2700 DI IBM USB Portable IBM USB 2.0 Con IBM USB 2.0 Mer CD-RW/DVD Con ThinkPad Multi-BI Second HDD Ada 40GB HS Hard D 80GB HS Hard D ThinkPad Carryin IBM 4GB Microdr IBM Enh Perf Wir	e Diskette Drive nbo Drive table Multi-Burner Drive nory Key 512MB nbo II Ultrabay Slim Drive urner Ultrabay Slim Drive pter for Ultrabay Slim sk 9.5mm (5400 rpm) isk 9.5mm (5400 rpm) carrying Case g Case - BackPack ive™ with PC Card eless Keybrd and Mouse	31P9830 T40 High Capacity 31P9834 Ultrabay Slim Li-Po 05K9276 ThinkPad Multiple I 73P4515 ThinkPad 72W AC/ 22P9163 IBM 11a/b/g Wirele 22P9230 IBM 11a/b/g Wirele 13P3294 SonyEricsson® GC8 62P4554 IBM M400 Projecto 08K9816 GemPC400 Smart 09N4273 ThinkPad Port Rep 10K0207 ThinkPad Mini Dock 173P3599 TrackPoint Cap Col	Li-lon Battery 9-cell lymer Battery 3-cell Battery Charger II Adapter DC Combo Adapter ss CardBus Adapter ss Mini PCI Adptr II 2200BG Mini PCI 3 EDGE PC Card r Card Reader/Writer licator II	08K8197 - 08K8190	optional travel bezel ServicePac®.22 2yr IOR 9x5 NBD 30L9190 ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 4yr IOR 9x5 NBD 69P9198 ServicePac 5yr IOR 9x5 NBD 69P9200 ServicePac 4yr P&L P/U Depot 69P9199 ServicePac 5yr P&L P/U Depot 69P9201 Post-warranty annual maintenance agreements at ibm.com/services/its/us/source/maspspleu.pdf			

				Mini DOI	CDC	<u></u>	Danie Date Manie	L (MA)
Type-model Pro	Speed ocessor GHz Memory Sc	Graphics D reen controller G		Mini PCI Comm Bay wireless	CDC modem Bluetooth	Finger S / print [™] reader	Secu-Bat-Work rity tery or G chip life ¹⁰ or E	norse (W) lobal (G) Avail intry (E) date
2373-P3U Pentiu 2373-Q1U Pentiu 2373-Q2U Pentiu	m M 765 2.1 1GB 14.1" m M 765 2.1 1GB 14.1" m M 765 2.1 1GB 15.0" m M 765 2.1 1GB 15.0"	SXGA+ FireGL 6 SXGA+ FireGL 6 SXGA+ FireGL 6 UXGA FireGL 6 UXGA FireGL 6 UXGA FireGL 6	60U Combo 60U DVD-RW 60U DVD-RW 60U Combo	IBM 11a/b/g II *Intel 11b/g Wi-Fi	Mod/Blu Mod/Blu Mod/Blu Mod/Blu	e Finger e Finger e Finger e Finger	Yes 5.8 hr Yes 6.0 hr Yes 5.9 hr Yes 5.3 hr Yes 5.4 hr Yes 5.3 hr	Oct 2004 Oct 2004 Jan 2005 Oct 2004 G Oct 2004 Jan 2005
Positioning Processor	Perfect balance of performa Intel® Pentium® M Process	or 765 (2.1GHz) ´	,		,	Vindowo \	SOFTWARE ¹	
L2 cache Memory	with enhanced Intel SpeedS 2MB / on die (at processor s 1GB std / 2GB max ⁷ / PC27 two 200-pin SO-DIMM socke	speed) / ECC 00 333MHz DDR1	/ non-parity /	CL2.5 /	-	Microsoft Professio Disk-to-D	XP Professior ® Windows® X onal ²⁰ (Service Disk Recovery	P Pack 2)
Diskette drive Combo DVD-RW	None standard / use optiona Some: DVD-ROM/CD-RW / Some: CD-RW/DVD-RW M DVD-RW / reads many form	24X/24X/24X/8X ² ulti-Burner / writes ats / removable fro	1 speed / remo to CD-R, CD-l om Ultrabay Sli	RW, DVD-RAM, DÝD m	-R,	Preloaded IBM Reso Access II	cue and Recov BM	,
Ultrabay Slim Disk	One modular bay for interch 60GB8 Ultra HS (7200 rpm) supports 2nd disk with optio Shock Absorber / IBM Acti	/ 9.5mm high / rer nal HDD Adapter i	movable, upgra in Ultrabay Slir	idable / 9.5mm high l n / IBM Hard Disk D i	bay / rive	Norton A virus defi PC-Docto	or™ ´	00 days of
Display	Some: 14.1 " (358.1mm) SX Some: 15.0 " (381.0mm) UX FlexView display with	(GA (1600x1200)	TFT color / Ac	tive Matrix / 200 nits	/ nology •		eader ate Connector	
Graphics Graphics external	ATI® Mobility™ FireGL™ T2 External monitor support via					Letter Ac	ordNOW and E cess powered (combo, DVD-	by Sonic
Keyboard TrackPoint [®] Touch pad ThinkLight™	87-key / Access IBM button TrackPoint® pointing device, UltraNav™ multi-pointing sys Illuminates the keyboard to	"Press-to-Select," stem / touch pad b mprove visibility in	Internet Scroll elow keyboard I low-light cond	Bar ¹³ , magnifying gla / Tap Zones litions	aśs/	InterVide DVD-RW InterVide (DVD-RW	o WinDVD (co) o WinDVD Cre V)	mbó, eator
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models (WxDxH): 12.2 15.0" models (WxDxH): 13.0 with optical drive and battery Magnesium composite in the Lithium Ion 9-cell / intelliger 9-cell: up to 6.0 hr; 9-cell plu)" x 10.6" x 1.2-1.4 : <i>14.1" models:</i> 5.4 e top cover, titaniu it / supports unique	1"; 329mm x 26 4 lb (2.4kg); <i>15</i> m-reinforced C e 2nd battery i	8mm x 31-36mm " <i>models:</i> 6.2 lb (2.8k FRP in bottom cover n Ultrabav Slim	(g) •	IBM Clier security of Download IBM Direct Software	able ctor Agent Delivery Assis	tware (for stant
Architecture PC Card Std slots Ports	Intel 855PM chipset / 82855 ICH4-M I/O Controller Hub ([LPC] interface, USB, Bluetc (TI® PCI4520A CardBus cor (security chip; PC87392 Sup 2 Type I, 2 Type II, or 1 Type Two USB (Version 2.0) / par RJ-11 (modem) / RJ-45 (eth	ATA-100 EIĎE, PC ooth, fingerprint) / I htroller, Mini PCI, e per I/O for diskette III / CardBus 32-b allel / external DB-	CI bus, etherne PCI bus 2.2 32 external expans , parallel, infral bit / integrated of -15 monitor / in	t MAC, Low Pin Cour -bit, 33MHz sion) / LPC bus 33MH ed, [docking-based p door frared (4Mbps) /	nt L 	icense (C Lotus® Si	Migration Assis CD not included martSuite® Mill tes® Stand-alo	d) ennium and
Mini PCI Intel 11b/g ³² Intel 11a/b/g ³²	S-video out port (TV out) / o UltraConnect™ Antenna buil One Mini PCI type III slot (C Some: 11b/g Wi-Fi³² wireless Some: 11a/b/g³² wireless⁴, I	t into the display c ommunications Ba s⁴, Mini PCI, Intel P Mini PCI. Intel PRC	cover for optima ay) / customer PRO/Wireless 2 D/Wireless 291	al wireless signal rec upgradable 200BG, Intel 82532 c 5ABG. 82533 chipse	hipset c	ThinkVanta	notebooks impl age™ technolog it ibm.com /thir	gies and
IBM 11a/b/g II ³² CDC Modem Bluetooth™ Ethernet Audio support	² Some: 11a/b/g wireless ⁴ , IB One Communications Daug 56K ⁶ V.90 (V.92-designed ²⁹) Bluetooth wireless technolor Gigabit ethernet on systemb Soft audio / ICH AC97 contratereo speakers / 1 watt / vomicrophone input jack (3.5 r	M 11a/b/g Mini PC hter Card (CDC) s modem in CDC / 0 gy / in CDC (with n loard / Intel 82540 oller / DirectSound lume up, down, m	CI Adapter II, A ocket / custom Conexant® chip nodem) EP chipset (M. d® support / AD ute buttons / in	theros AR5004X chil er accessible sset AC/PHY) / PXE 1981B AC97 codec / ternal mic /	pset (Asset IDTM chip according PC 2001-co ACPI 1.0b DIM and D PXE 2.1-co	and 2.0-compl MI 2.0-complia ompliant	cific info in work) iant ant
Security Security chip Fingerprint reader	Power-on password / hard d IBM Embedded Security S authentication / local file end Fingerprint reader on paln	isk password / sup ubsystem 2.0 ³³ / l cryption / enhance n rest / swipe sens	pervisor passw hardware key s s VPN security sor / integrated	ord / security keyhole storage / multi-factor ¹⁶ / TCG-compliant with security chip /	9 ∣	nternation 24 hour x 7 support	Ultra™ Service al Warranty Se 7 day¹ ⁸ toll-free during the war -SERV (426-7	ervice ¹⁷ warranty ranty ¹² via
Limited warranty ¹²	can replace multiple password 3 years/1 yr battery - EasyS				² avail	ServicePad	c ^{®, 22} 2yr IOR 9	
128MB PC2700 256MB PC2700 512MB PC2700 1GB PC2700 DD IBM USB Portab IBM USB 2.0 Pol IBM USB 2.0 Pol IBM USB 2.0 Me CD-RW/DVD Col ThinkPad Multi-E	DDR-SDRAM CL2.5 SOD 3 DDR-SDRAM CL2.5 SOD 3 DDR-SDRAM CL2.5 SOD 3 DR-SDRAM CL2.5 SOD 3 DR-SDR	1P9828 ThinkPac 1P9830 T40 High 1P9832 Ultrabay 1P9834 ThinkPac 5K9276 ThinkPac 2P9163 IBM 11a. 2P7196 IBM 11a. 2P9230 Intel PRC 3P3288 Kensingt 3P3294 GemPC4	d T40 Li-lon Ban Capacity Li-lo Slim Li-Polymod 72W AC Adad 72W AC/DC /b/g Wireless N O/Wireless N O/Wireless 22C ton® MicroSave 400 Smart Car	nttery 6-cell 08 on Battery 9-cell 08 er Battery 3-cell 08 pter 02l Combo Adapter 22l CardBus Adptr II 73l Mini PCI Adapter 31l 0BG Mini PCI 73 d Reader/Writer 31l	K8214 K8197 K8190 K6699 P9010 P4301 P9701 P2801 P2582 P8901	ServicePad ServicePad ServicePad ServicePad	c 3yr IOR 9x5 c 4yr IOR 9x5 c 5yr IOR 9x5 c 4yr P&L P/U c 5yr P&L P/U	30L9197 NBD 69P9198 NBD 69P9200 Depot 69P9199 Depot 69P9201
40GB HS Hard E 80GB HS Hard E SonyEricsson® G	Disk 9.5mm (5400 rpm) 0 Disk 9.5mm (5400 rpm) 0	8K9816 ThinkPad 9N4273 ThinkPad 6K3393 Other op	tions at ibm.c	287	7810U a 7710U s	ibm.cor maspsp	n /services/its/i	us/source/

Mini PCI CDC Workhorse (W) modem/ Security Global (G) Limited Bluetooth™ chip Preload Entry (E) warranty Avail Speed GHz Memory Graphics Disk Comm Bay Type-model Processor Screen controller GB8 Optical wireless 2378-DYU Pentium® M 745 1.8 512MB 15.0" UXGA FireGL 80HS DVD-RW 11a/b/g Wi-Fi³² Mod/Blue Yes XP Pro No 1 year May 2004 • These small and medium business (SMB) models are part of the IBM US Think Express Program The 2378 has a 1 year limited warranty (other ThinkPad T42p 2379 Express models have a 3 year limited Perfect balance of performance and portability; two-spindle system Intel® Pentium® M Processor 745 (1.8GHz) Positioning SOFTWARE¹⁴ Processor Windows XP Professional with enhanced Intel SpeedStep™ technology¹ and 400MHz system bus L2 cache 2MB / on die (at processor speed) / ECC Microsoft® Windows® XP Memory 512MB std / 2GB max7 / PC2700 333MHz DDR1 (DDR-SDRAM) / non-parity / CL2.5 / Professional²⁰ two 200-pin SO-DIMM sockets / std memory in one socket / one socket available (in hidden protected area) Diskette drive None standard / use optional USB-based diskette drive CD-RW/DVD-RW Multi-Burner / writes to CD-R, CD-RW, DVD-RAM, DVD-R, DVD-RW / reads CD-ROM, CD-R, CD-RW, CD-Audio, DVD-ROM, DVD-R, DVD+R, DVD+RW, DVD-RW, DVD-Video, DVD-RAM / same as optional ThinkPad Multi-Burner DVD-RW **Preloaded** Access IBM Access Connections Ultrabay Slim Drive Option / removable from Ultrabay™ Slim IBM Rescue and Recovery™
 IBM RecordNOW and Drive Letter One modular bay for interchangeable devices (right side) / 9.5mm high bay **80GB**⁸ **HS** (5400 rpm) / 9.5mm high / removable, upgradable / 9.5mm high bay Ultrabay Slim Disk Access powered by Sonic products supports 2nd disk with optional HDD Adapter in Ultrabay Slim / IBM Hard Disk Drive (DVD-RW) InterVideo WinDVD (DVD-RW) Shock Absorber / IBM Active Protection System (impact protection) 15.0" (381.0mm) UXGA (1600x1200) TFT color / Active Matrix / 200 nits / InterVideo WinDVD Creator Display (DVD-RW) FlexView display with wide viewing angle and high density using IPS technology Norton AntiVirus (OEM edition) ATI® Mobility™ FireGL™ T2 / AGP 4X / 128MB DDR1 / OpenGL® support Graphics PC-Doctor™ External monitor support via analog DB-15 connector / up to 2048x1536 at 75Hz / DDC2B Graphics external ThinkPad Utilities 87-key / Access IBM button / palm rest / pitch: 19mm; stroke: 2.5mm (std-size keys)
TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass /
UltraNav™ multi-pointing system / touch pad below keyboard / Tap Zones Keyboard Adobe Reader TrackPoint® IBM Update Connector™,15 Touch pad **Downloadable** ThinkLight™ Illuminates the keyboard to improve visibility in low-light conditions • IBM Director Agent 15.0" models (WxDxH): 13.0" x 10.6" x 1.2-1.4"; 329mm x 268mm x 31-36mm with optical drive and battery: 5.9 lb (2.7kg) Software Delivery Assistant Dimensions³ Weight² System Migration Assistant Magnesium composite in the top cover, titanium-reinforced CFRP in bottom cover Case material • IBM Client Security Software (for Battery - type Battery - life¹⁰ Lithium Ion 6-cell / intelligent / supports unique 2nd battery in Ultrabay Slim security chip) Up to 3.5 hr; Optional 9-cell: up to 5.7 hr; 9-cell plus Ultrabay Slim battery: up to 7.7 hr License (CD not included)
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client Intel 855PM chipset / 82855PM Memory Controller Hub (MCH-M)/
82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC,
Low Pin Count [LPC] interface, USB, [Bluetooth]) / PCI bus 2.2 32-bit, 33MHz
(TI® PCI4520A CardBus controller, Mini PCI, external expansion) / LPC bus 33MHz
(security chip; PC87392 Super I/O for diskette, parallel, infrared, [docking-based ports])
2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / integrated door
Two USB (Version 2.0) / parallel / external DB-15 monitor / infrared (4Mbps) /
RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mouse or serial ports (use USB) Architecture PC Card Std slots **Ports** ThinkPad notebooks implement IBM ThinkVantage™ technologies and design; visit **ibm.com**/thinkvantage S-video out port (TV out) / one 4-pin industry standard connector Video out UltraConnect™ Antenna built into the display cover for optimal wireless signal reception One Mini PCI type III slot (Communications Bay) / customer upgradable 11a/b/g Wi-Fi³²² wireless⁴, Mini PCI, Atheros™ AR5001X+ chipset One Communications Daughter Card (CDC) socket / customer accessible 56K6 V.90 (V.92-designed²³) modem in CDC / Conexant® chipset Wireless antenna Universal 72 watt AC adapter Asset ID^{TM,34} (system-specific info in Mini PCI 11a/b/g Wi-Fi32 chip accessed over network) CDC PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant Modem Bluetooth™ Bluetooth wireless technology / in CDC (with modem) Ethernet Gigabit ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE PXE 2.0-compliant Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / Audio support ENERGY STAR®-compliant
IBM ImageUltra™ Services available stereo speakers / 1 watt / volume up, down, mute buttons / internal mic / microphone input jack (3.5 mm; pink) / headphone jack (3.5 mm; green) International Warranty Service17 Power-on password / hard disk password / supervisor password / security keyhole IBM Embedded Security Subsystem 2.033 / hardware key storage / multi-factor Security 24 hour x 7 day¹⁸ toll-free warranty Security chip support during the warranty¹² via 800-IBM-SERV (426-7378) authentication / local file encryption / enhances VPN security¹⁶ / TCG-compliant Limited warranty¹² 1 year - EasyServ^{TM.19} onsite pickup and delivery / service upgrades²² available ServicePac®, 22 1vr IOR 9x5 NBD 128MB PC2700 DDR-SDRAM CL2.5 SOD 256MB PC2700 DDR-SDRAM CL2.5 SOD 512MB PC2700 DDR-SDRAM CL2.5 SOD 08K8214 08K8197 31P9828 ThinkPad T40 Li-Ion Battery 6-cell 30L9188 31P9830 T40 High Capacity Li-Ion Battery 9-cell ServicePac 2 yr IOR 9x5 NBD 31P9832 30L9189 Ultrabay Slim Li-Polymer Battery 3-cell 08K8190 1GB PC2700 DDR-SDRAM CL2.5 SOD 31P9834 05K9276 ServicePac 3 yr IOR 9x5 NBD ThinkPad Multiple Battery Charger II 22P9040 IBM USB Portable Diskette Drive ThinkPad 72W AC Adapter 02K6699
ThinkPad 72W AC/DC Combo Adapter 22P9010
IBM 11a/b/g Wireless CardBus Adapter 31P9101 02K6699 30L9195 ServicePac 4 yr IOR 9x5 NBD IBM USB Serial Parallel Adapter 22P5298 30L9194 IBM USB 2.0 Combo Drive 73P4515 IBM USB 2.0 Portable Multi-Burner Drive 22P9163 IBM 11a/b/g Wireless Mini PCI Adptr II 73P4301 ServicePac 5 yr IOR 9x5 NBD 30L9196 IBM USB 2.0 Memory Key 512MB 22P9230 73P2801 Intel PRO/Wireless 2200BG Mini PCI 73P3288 CD-RW/DVD Combo II Ultrabay Slim Drive SonyEricsson® GC83 EDGE PC Card 26K3393 ServicePac 2 yr P&L P/U Depot ThinkPad DVD-ROM Ultrabay Slim Drive 73P3270 Kensington® MicroSaver® Security Cable 73P2582 30L9191 ThinkPad Multi-Burner Ultrabay Slim Drive 73P3294 IBM M400 Projector 0037A04 ServicePac 3 yr P&L P/U Depot IBM E400 Projector Second HDD Adapter for Ultrabay Slim 62P4554 0038A04 30L9192 30GB Hard Disk 9.5mm (4200 rpm) 09N4268 IBM C400 Projector 0039A04 ServicePac 4 yr P&L P/U Depot 40GB HS Hard Disk 9.5mm (5400 rpm) 08K9816 GemPC400 Smart Card Reader/Writer 31P8901 69P9195 80GB HS Hard Disk 9.5mm (5400 rpm) 09N4273 ThinkPad Port Replicator II 74P6733 ServicePac 5 yr P&L P/U Depot ThinkPad Carrying Case - Expander 73P3597 ThinkPad Mini Dock 287810U 69P9197 ThinkPad Carrying Case - Leather IBM Enh Perf Wireless Keybrd and Mouse 73P3600 ThinkPad Dock II 287710U Post-warranty annual maintenance 73P4067 ThinkPad Monitor Stand 2001 22P5265 agreements at 31P8950 IBM USB Keyboard with ÚltraNav TrackPoint Cap Collection 73P2698 ibm.com/services/us/its/pdf/ Other options at ibm.com/pc/us/accessories IBM USB Travel Keyboard with UltraNav 31P9490 maspspleu.pdf

Mini PCI CDC Workhorse (W) modem/ Security Global (G) Limited Avail Bluetooth™ chip Preload Entry (E) warranty date Speed GHz Memory Graphics Disk Comm Bay Type-model Processor Screen controller GB8 Optical wireless 2379-DYU Pentium® M 745 1.8 512MB 15.0" UXGA FireGL 80HS DVD-RW 11a/b/g Wi-Fi³² Mod/Blue Yes XP Pro No 3 year May 2004 • These small and medium business (SMB) models are part of the IBM US Think Express Program The 2379 has a 3 year limited warranty (other ThinkPad T42p 2378 Express models have a 1 year limited warranty) Perfect balance of performance and portability; two-spindle system Intel® Pentium® M Processor 745 (1.8GHz) with enhanced Intel SpeedStep™ technology¹ and 400MHz system bus Positioning SOFTWARE¹⁴ Processor Windows XP Professional L2 cache 2MB / on die (at processor speed) / ECC Microsoft® Windows® XP Memory 512MB std / 2GB max7 / PC2700 333MHz DDR1 (DDR-SDRAM) / non-parity / CL2.5 / Professional²⁰ two 200-pin SO-DIMM sockets / std memory in one socket / one socket available ♦ Disk-to-Disk Recovery (in hidden protected area) Diskette drive None standard / use optional USB-based diskette drive CD-RW/DVD-RW Multi-Burner / writes to CD-R, CD-RW, DVD-RAM, DVD-R, DVD-RW / reads CD-ROM, CD-R, CD-RW, CD-Audio, DVD-ROM, DVD-R, DVD+R, DVD+RW, DVD-RW, DVD-Video, DVD-RAM / same as optional ThinkPad Multi-Burner DVD-RW **Preloaded** Access IBM Access Connections Ultrabay Slim Drive Option / removable from Ultrabay™ Slim IBM Rescue and Recovery™
 IBM RecordNOW and Drive Letter One modular bay for interchangeable devices (right side) / 9.5mm high bay **80GB**⁸ **HS** (5400 rpm) / 9.5mm high / removable, upgradable / 9.5mm high bay Ultrabay Slim Disk Access powered by Sonic products supports 2nd disk with optional HDD Adapter in Ultrabay Slim / IBM Hard Disk Drive (DVD-RW) InterVideo WinDVD (DVD-RW) Shock Absorber / IBM Active Protection System (impact protection) 15.0" (381.0mm) UXGA (1600x1200) TFT color / Active Matrix / 200 nits / InterVideo WinDVD Creator Display (DVD-RW) FlexView display with wide viewing angle and high density using IPS technology Norton AntiVirus (OEM edition) ATI® Mobility™ FireGL™ T2 / AGP 4X / 128MB DDR1 / OpenGL® support Graphics PC-Doctor™ Graphics external External monitor support via analog DB-15 connector / up to 2048x1536 at 75Hz / DDC2B ThinkPad Utilities 87-key / Access IBM button / palm rest / pitch: 19mm; stroke: 2.5mm (std-size keys) TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass / UltraNav™ multi-pointing system / touch pad below keyboard / Tap Zones Keyboard Adobe Reader TrackPoint® IBM Update Connector™,15 Touch pad Downloadable ThinkLight™ Illuminates the keyboard to improve visibility in low-light conditions • IBM Director Agent 15.0" models (WxDxH): 13.0" x 10.6" x 1.2-1.4"; 329mm x 268mm x 31-36mm with optical drive and battery: 5.9 lb (2.7kg) Software Delivery Assistant Dimensions³ Weight² System Migration Assistant Magnesium composite in the top cover, titanium-reinforced CFRP in bottom cover Case material • IBM Client Security Software (for Battery - type Battery - life¹⁰ Lithium Ion 6-cell / intelligent / supports unique 2nd battery in Ultrabay Slim security chip) Up to 3.5 hr; Optional 9-cell: up to 5.7 hr; 9-cell plus Ultrabay Slim battery: up to 7.7 hr License (CD not included)
- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client Intel 855PM chipset / 82855PM Memory Controller Hub (MCH-M)/
82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC,
Low Pin Count [LPC] interface, USB, [Bluetooth]) / PCI bus 2.2 32-bit, 33MHz
(TI® PCI4520A CardBus controller, Mini PCI, external expansion) / LPC bus 33MHz
(security chip; PC87392 Super I/O for diskette, parallel, infrared, [docking-based ports])
2 Type I, 2 Type II, or 1 Type III / CardBus 32-bit / integrated door
Two USB (Version 2.0) / parallel / external DB-15 monitor / infrared (4Mbps) /
RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mouse or serial ports (use USB) Architecture PC Card Std slots **Ports** S-video out port (TV out) / one 4-pin industry standard connector Video out UltraConnect™ Antenna built into the display cover for optimal wireless signal reception One Mini PCI type III slot (Communications Bay) / customer upgradable 11a/b/g Wi-Fi³² wireless⁴, Mini PCI, Atheros™ AR5001X+ chipset One Communications Daughter Card (CDC) socket / customer accessible 56K6 V.90 (V.92-designed²ց) modem in CDC / Conexant® chipset Bluetooth wireless technology / in CDC (with modem) Wireless antenna Mini PCI 11a/b/g Wi-Fi32 ThinkPad notebooks implement IBM CDC ThinkVantage™ technologies and Modem design; visit ibm.com/thinkvantage Bluetooth™ Ethernet Gigabit ethernet on systemboard / Intel 82540EP chipset (MAC/PHY) / PXE Universal 72 watt AC adapter Asset ID™.34 (system-specific info in Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / Audio support stereo speakers / 1 watt / volume up, down, mute buttons / internal mic / chip accessed over network) microphone input jack (3.5 mm; pink) / headphone jack (3.5 mm; green) PC 2001-compliant Power-on password / hard disk password / supervisor password / security keyhole IBM Embedded Security Subsystem 2.033 / hardware key storage / multi-factor Security ACPI 1.0b and 2.0-compliant Security chip CIM and DMI 2.0-compliant authentication / local file encryption / enhances VPN security16 / TCG-compliant PXE 2.0-compliant ENERGY STAR®-compliant IBM ImageUltra™ Services available Limited warranty¹² 3 years/1 yr battery - EasyServ^{TM,19} onsite pickup and delivery / service upgrades²² avail 128MB PC2700 DDR-SDRAM CL2.5 SOD 256MB PC2700 DDR-SDRAM CL2.5 SOD 512MB PC2700 DDR-SDRAM CL2.5 SOD 31P9828 ThinkPad T40 Li-Ion Battery 6-cell 08K8214 International Warranty Service17 08K8197 31P9830 24 hour x 7 day¹⁸ toll-free warranty support during the warranty¹² via T40 High Capacity Li-Ion Battery 9-cell 31P9832 Ultrabay Slim Li-Polymer Battery 3-cell 08K8190 1GB PC2700 DDR-SDRAM CL2.5 SOD 31P9834 05K9276 ThinkPad Multiple Battery Charger II 22P9040 800-IBM-SERV (426-7378) IBM USB Portable Diskette Drive ThinkPad 72W AC Adapter 02K6699
ThinkPad 72W AC/DC Combo Adapter 22P9010
IBM 11a/b/g Wireless CardBus Adapter 31P9101 ServicePac®, 22 2yr IOR 9x5 NBD IBM USB Serial Parallel Adapter 22P5298 IBM USB 2.0 Combo Drive 73P4515 30L9190 IBM USB 2.0 Portable Multi-Burner Drive 22P9163 ServicePac 3yr IOR 9x5 NBD IBM 11a/b/g Wireless Mini PCI Adptr II 73P4301 IBM USB 2.0 Memory Key 512MB 22P9230 26K3393 30L9197 SonyEricsson® GC83 EDGE PC Card 73P3288 CD-RW/DVD Combo II Ultrabay Slim Drive Intel PRO/Wireless 2200BG Mini PCI 73P2801 ServicePac 4yr IOR 9x5 NBD ThinkPad DVD-ROM Ultrabay Ślim Drive 73P3270 Kensington® MicroSaver® Security Cable 73P2582 69P9198 ThinkPad Multi-Burner Ultrabay Slim Drive 73P3294 IBM M400 Projector 0037A04 ServicePac 5yr IOR 9x5 NBD IBM E400 Projector 69P9200 Second HDD Adapter for Ultrabay Slim 62P4554 0038A04 30GB Hard Disk 9.5mm (4200 rpm) 09N4268 IBM C400 Projector 0039A04 ServicePac 4yr P&L P/U Depot 40GB HS Hard Disk 9.5mm (5400 rpm) 08K9816 GemPC400 Smart Card Reader/Writer 31P8901 69P9199 80GB HS Hard Disk 9.5mm (5400 rpm) 09N4273 ThinkPad Port Replicator II 74P6733 ServicePac 5yr P&L P/U Depot ThinkPad Carrying Case - BackPack 73P3599 ThinkPad Mini Dock 287810U 69P9201 ThinkPad Carrying Case - Leather IBM 4GB Microdrive™ with PC Card 73P3600 ThinkPad Dock II 287710U Post-warranty annual maintenance 09N4280 ThinkPad Monitor Stand 2001 22P5265 agreements at IBM USB Keyboard with UltraNav 31P8950 TrackPoint Cap Collection 73P2698 ibm.com/services/its/us/source/ Other options at ibm.com/pc/us/accessories IBM USB Travel Keyboard with UltraNav 31P9490 maspspleu.pdf

Speed Graphics Disk Mini PCI CDC Comm Bay modem/ Security Limited Avail Type-model Processor GHz Memory Screen controller GB[®] Optical wireless Bluetooth™ chip Preload warranty date

2373-7XU Pentium® M 745 1.8 512MB 15.0" UXGA FireGL 80HS DVD-RW \pm Intel 11b/g Wi-Fi 32 Modem Yes XP Pro EasyServ May 2004

The 2373 has an EasyServ™.19 onsite pickup and delivery 3 year limited warranty

These	educational models of the ThinkPac	notebook are available only to public or pry y for educational purposes for use by quali	rivate K-12 (
Positioning Processor	Perfect balance of performance an Intel® Pentium® M Processor 745	(1.8GHz)		SOFTWARE ¹⁴ Windows XP Professional
L2 cache Memory	2MB / on die (at processor speed) 512MB std / 2GB max ⁷ / PC2700 3	echnology ¹ and 400MHz system bus / ECC 33MHz DDR1 (DDR-SDRAM) / non-parity andard memory in one socket / one socket	/ CL2.5 /	Mindows AF Professional Microsoft® Windows® XP Professional²0 ⇒ Disk-to-Disk Recovery
Diskette drive DVD-RW	DVD-RW / reads CD-ROM, CD-R,	based diskette drive ites to CD-R, CD-RW, DVD-RAM, DVD-R, CD-RW, CD-Audio, DVD-ROM, DVD-R, DV VD-RAM / removable from Ultrabay™ Slim		(in hidden protected area) Preloaded Education software from Vital Source Technologies®:
Ultrabay Slim Disk	One modular bay for interchangeal 80GB ⁸ HS (5400 rpm) / 9.5mm hig supports 2nd disk with optional HD IBM Hard Disk Drive Shock Abso	· •	vitalsource KEY™ and Personal Portable library™ Access IBM	
Display	15.0" (381.0mm) UXGA (1600x12	00) TFT color / Active Matrix / 200 nits / angle and high density using IPS technolo	•	 Access Connections IBM Rescue and Recovery™ IBM RecordNOW and Drive Letter
Graphics Graphics external		4X / 128MB DDR1 / OpenGL® support DB-15 connector / up to 2048x1536x16.7M /	/ DDC2B	Access powered by Sonic products (DVD-RW models) InterVideo WinDVD (DVD-RW)
Keyboard TrackPoint® Touch pad ThinkLight™	TrackPoint® pointing device, "Press	rest / pitch: 19mm; stroke: 2.5mm (std-size to-Select," Internet Scroll Bar ¹³ , magnifying ouch pad below keyboard / Tap Zones e visibility in low-light conditions	g gĺaśs /	 InterVideo WinDVD Creator (DVD-RW models) Norton AntiVirus (OEM edition) PC-Doctor™
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	with optical drive and battery: 5.9 lb Magnesium composite in the top co Lithium Ion 6-cell / intelligent / supp Up to 3.5 hr; <i>Optional 9-cell</i> : up to 4.	over, titanium-reinforced CFRP in bottom co orts unique 2nd battery in Ultrabay Slim 5.7 hr; 9-ce <i>ll plus Ultrabay Slim battery:</i> up	over to 7.7 hr	ThinkPad Utilities Adobe Reader IBM Update Connector™.15 Downloadable IBM Director Agent
Architecture PC Card Std slots Ports	Intel 855PM chipset / 82855PM Me 82801DBM ICH4-M I/O Controller Low Pin Count [LPC] interface, US (TI® PCI4520A CardBus controller, (security chip; PC87392 Super I/O 2 Type I, 2 Type III / Ca Two USB (Version 2.0) / parallel / eRJ-11 (modem) / RJ-45 (ethernet)	C, 3MHz led ports])	 Software Delivery Assistant System Migration Assistant IBM Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client 	
Video out Wireless antenna Mini PCI Intel 11b/g³² CDC	One Mini PCI type III slot (Commu 11b/g Wi-Fi ³² wireless ⁴ , Mini PCI, In One Communications Daughter Ca	ne display cover for optimal wireless signal nications Bay) / customer upgradable tel PRO/Wireless 2200BG, Intel 82532 chips rd (CDC) socket / customer accessible	set -	ThinkPad notebooks implement IBM ThinkVantage™ technologies and design; visit ibm.com /thinkvantage
Modem Bluetooth™ Ethernet Audio support Security Security chip	Soft audio / ICH AC97 controller / I stereo speakers / 1 watt / volume u microphone input jack (3.5 mm; pir Power-on password / hard disk pas IBM Embedded Security Subsys	In CDC / Conexant® cnipset Intel 82540EP chipset (MAC/PHY) / PXE DirectSound® support / AD1981B AC97 coc p, down, mute buttons / internal mic / k) / headphone jack (3.5 mm; green) sword / supervisor password / security key tem 2.0³³ / hardware key storage / multi-fac i / enhances VPN security¹6 / TCG-complial	dec /	Universal 72 watt AC adapter Asset ID ^{TM,34} (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant PXE 2.0-compliant ENERGY STAR®-compliant
Limited warranty ¹²		onsite pickup and delivery / service upgrad	des ²² avail	BM ImageUltra™ Services available nternational Warranty Service¹7
256MB PC2700 I 512MB PC2700 I	DDR-SDRAM CL2.5 SOD 31P9828 DDR-SDRAM CL2.5 SOD 31P9830 DDR-SDRAM CL2.5 SOD 31P9832	T40 High Capacity Li-Ion Battery 9-cell Ultrabay Slim Li-Polymer Battery 3-cell	08K8197 08K8190	24 hour x 7 day ¹⁸ toll-free warranty support during the warranty ¹² via 800-IBM-SERV (426-7378)
1GB PC2700 DD IBM USB Portable IBM USB Serial F	R-SDRAM CL2.5 SOD 31P9834 e Diskette Drive 05K9276 Parallel Adapter 22P5298	ThinkPad 72W AC Adapter ThinkPad 72W AC/DC Combo Adapter	02K6699 22P9010	ServicePac ^{®, 22} 2yr IOR 9x5 NBD 30L9190 ServicePac 3yr IOR 9x5 NBD
IBM USB 2.0 Cor	nbo Drive 73P4515 table Multi-Burner Drive 22P9163	IBM 11a/b/g Wireless CardBus Adapter IBM 11a/b/g Wireless Mini PCI Adptr II	31P9101	30L9197 ServicePac 4yr IOR 9x5 NBD 69P9198
CD-RW/DVD Cor ThinkPad Multi-B	nbo II Ultrabay Slim Drive 73P3288 urner Ultrabay Slim Drive 73P3294	SonyEricsson® GC83 EDGE PC Card Kensington® MicroSaver® Security Cable	26K3393 73P2582	ServicePac 5yr IOR 9x5 NBD 69P9200
30GB Hard Disk 9 40GB HS Hard D	apter for Ultrabay Slim 62P4554 9.5mm (4200 rpm) 09N4268 isk 9.5mm (5400 rpm) 08K9816	GemPC400 Smart Card Reader/Writer ThinkPad Port Replicator II	31P8901 74P6733	ServicePac 4yr P&L P/U Depot 69P9199 ServicePac 5yr P&L P/U Depot
ThinkPad Premie ThinkPad Carryin	isk 9.5mm (5400 rpm) 09N4273 re Leather Carrying Case 10K0209 g Case - BackPack 73P3599	ThinkPad Dock II ThinkPad Monitor Stand 2001	22P5265 a	69P9201 Post-warranty annual maintenance agreements at
IBM 4GB Microdr IBM Enh Perf Wir	ive™ with PC Card 09N4280 eless Keybrd and Mouse 73P4067		73P2698 ories	ibm.com/services/its/us/source/ maspspleu.pdf

							Mini PCI	CDC				TICE (PSREF)	
Type-model Prod	cessor	Speed GHz Memory	/ Screen	Graphics controller		Optical	Comm Bay wireless	modem	/ Security n™ chip	Preload	Limited warranty	Avail date	
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Disk	suppor Shock	ts 2nd disk wi Absorber / II	th optional F BM Active P	IDD Adap Protection	ter in L Syste	Jltrabay Sli m (impact	<u> </u>		PersonaAccessAccess	al Portab IBM Connect	le library [⊤] tions		
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Graphics external Keyboard	Externa	al monitor supp	oort via analo	og DB-15 c	onnect	or / up to 2	enGL® support 2048x1536x16.7M / : 2.5mm (std-size		(DVD-RInterVice	RW mode deo WinD		-RW)	
TrackPoint® Touch pad ThinkLight™	TrackP UltraNa Illumina	oint® pointing av™ multi-poir ates the keybo	device, "Pres iting system pard to impro	ss-to-Sele / touch pa ove visibilit	ct," Inte d belo ty in lov	ernet Scrol w keyboard w-light con	l Bar¹³, magnifying d / Tap Zones ditions	glass /	(DVD-RNortonPC-Doo	RW mode AntiVirus ctor™	ls) s (OEM ed		
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Architecture PC Card Std slots Ports	82801[Low Pi (TI® PC (securi 2 Type Two US	n Count [LPC 014520A Card ty chip; PC87 I, 2 Type II, o SB (Version 2	I/O Controlle] interface, U Bus controlle 392 Super I/ · 1 Type III / (0) / parallel /	er Hub (AT. ISB, [Blue er, Mini PC O for diske CardBus 3 / external	A-100 tooth]) I, exte ette, pa 32-bit / DB-15	EIDE, PCI / PCI bus : rnal expanarallel, infraintegrated monitor / ii	bus, éthernet MAC 2.2 32-bit, 33MHz sion) / LPC bus 33 red, [docking-base	BMHz ed ports])					
Video out Wireless antenna Mini PCI Intel 11b/g³² CDC Modem Bluetooth™	UltraCo One M 11b/g V One Co	ini PCI type II Vi-Fi³² wireles:	nna built into I slot (Comm s⁴, Mini PCI, s Daughter (the displantions Intel PRO Card (CDO	ay cove s Bay) /Wirele C) sock	er for optim / customer ess 2200B0 tet / custon	al wireless signal upgradable , Intel 82532 chips ner accessible						
Ethernet Audio support	Gigabit Soft au reo spe		97 controller t / volume up	/ DirectSo o, down, m	und® s lute bu	upport / Al ttons / inte		ec / ste-					
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Limited warranty ¹²	3 years		limited ons	ite servic	e ²⁴ , 8 a	am - 5 pm,	· · · · · · · · · · · · · · · · · · ·	e			chnologie com/think		
128MB PC2700 I 256MB PC2700 I 512MB PC2700 I 1GB PC2700 DD IBM USB POrtabl IBM USB 2.0 Cor IBM USB 2.0 POR IBM USB 2.0 Mer CD-RW/DVD Cor ThinkPad Multi-B Second HDD Ada 30GB Hard Disk 40GB HS Hard D	DDR-SD DDR-SDR/ Ie Disket mbo Driv rtable Mu emory Ke mbo II U Burner UI apter for 9.5mm (Disk 9.5m	DRAM CL2.5 S DRAM	SOD 31P98: SOD 31P98: 05K92 73P45 22P91: 22P92: rrive 73P32: 73P32: 62P45: 09N42 08K98	30 T40 F 32 Ultrab 34 Think 76 Think 15 IBM 1 63 IBM 1 188 Kensi 94 IBM N 54 Gemf 68 Think 16 Think	ligh Ca bay Slin Pad Mi Pad 72 1a/b/g 1a/b/g PRO/W ngton® 1400 P PC400 Pad Mi	apacity Li-lon Li-Polym Li-Polym Li-Polym Li-Polym AC/DC Wireless (Wireless MicroSave Projector Smart Car Replication Dock	on Battery 9-cell er Battery 3-cell ery Charger II Combo Adapter CardBus Adapter Jini PCI Adptr II DOBG Mini PCI er® Security Cable d Reader/Writer or II	31P9101 73P4301 73P2801 73P2582 0037A04 31P8901 74P6733 287810U -	Asset ID ^T chip ac PC 2001- ACPI 1.0I CIM and PXE 2.0- ENERGY IBM Imag Internatio 24 hour x suppor 800-IBI	M.34 (system coessed coessed compliar be and 2.0 DMI 2.0-complian STAR®-complian STAR®-complian Warra Today 18 to during to M-SERV	0-compliant compliant t compliant Services anty Serv toll-free w the warrar (426-737	fic info in ork) nt t t available vice ¹⁷ varranty nty ¹² via 8)	
80GB HS Hard D ThinkPad Carryin IBM 4GB Microdr IBM Enhanced Pe	ng Case rive™ wit	- Leather th PC Card	73P36 09N42	00 Think 80 Trackl	Point C	onitor Stan Sap Collect	d 2001	22P5265 73P2698	agreeme ibm.c	nts at	nual maint ces/its/us/		

Type-model Pro	ocessor	Speed	Memory	Screen	Graphics controller memory	Disk GB ⁸	Optical	Mini PCI Comm Bay wireless	CDC modem/ Bluetooth™	Finger print reader	rity			(G) Avail
1871-11U Pentiur 1871-13U Pentiur 1871-13U Pentiur 1871-16U Pentiur 1871-22U Pentiur 1871-24U Pentiur	m [®] M 730 m M 730 m M 730 m M 730 m M 730 m M 730	1.60 1.60 1.60 1.60 1.60	256MB 256MB 256MB 256MB 256MB	14.1" XGA 14.1" XGA 14.1" XGA 14.1" XGA 15.0" XGA	GMA 900 GMA 900 GMA 900 GMA 900 GMA 900	40HS 40HS 40HS 40HS 40HS	DVD Combo Combo Combo Combo	*Intel 11b/g ³² *Intel 11b/g *Intel 11b/g *Intel 11b/g *Intel 11b/g *Intel 11b/g		No No Finger Finger No	Yes Yes Yes Yes Yes	XP Pro XP Pro XP Home XP Pro XP Pro XP Pro	Entry Entry Entry Entry Entry	Feb 05 Feb 05
Positioning Processor L2 cache Memory	Intel® Per technolo 2MB / or 256MB	entium gy¹, Ei n die (a std / 20	n® M Proc xecute D at proces GB max ⁷	isable Bit, a sor speed) / PC2-4200	(1.60GHz) nd 533MHz / ECC 533MHz D	with enz syster	hanced In h bus non-parity	tem ntel SpeedStep // CL4 / dual c et / one socke	hannel	- Micros Profes Disk-to	vs XP soft® V ssiona o-Disk	Profession Vindows® (Service Recover	onal mo XP e Pack y	
Diskette drive DVD Combo Ultrabay Slim Disk	Some: I Some: I One mod 40GB ⁸ H supports	DVD-R DVD-R dular b IS (540 s 2nd c	OM / 24) OM/CD-loay for int 00 rpm) /	RW / 24X/2 erchangeal 9.5mm hig I Hard Disk	l / bootable 4X/24X/8X ² ble devices h / removab	/ removed speed (right speed) ole, upg	vable fron I / remova ide) / 9.5r radable /	n Ultrabay™ Sli ble from Ultrak nm high bay 9.5mm high ba	pay Slim	Window - Micros Home ⇒Disk-to	soft W Edition Disk	Home maindows XI no (Servi Recover rotected a	odels P ce Pacl y	k 2)
Display								Natrix / 150 nits Natrix / 200 nits			escue	and Rec	overy™	
Graphics				Acceleraton mory (up to				d graphics in 9 MHz	15GM	 Nortor 	າ Anti\			
Keyboard TrackPoint® Touch pad ThinkLight™	TrackPoi UltraNav Illuminat	nt® poi v™ mul es the	nting dev ti-pointin keyboar	vice, "Þress g system / t d to improve	-to-Select," ouch pad b visibility in	Interne elow ke Iow-lig	et Scroll B eyboard / tht conditi	ons	g gĺaśs /		Pad Ut Read pdate	tilities		
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.0" mo with option Magnesi Lithium I	odels (cal driv ium co lon 6-c	<i>WxDxH):</i> /e and ba /mposite :ell / intel	: 13.0" x 10. httery: 14.1" in the top co lligent / sup	6" x 1.2-1.4 models: up over, titaniu oorts uniqu	1"; 329n to 5.1 l m-reinfo e 2nd b	nm x 268 b (2.3kg); orced CF attery in	nm x 26.6-31.4 nm x 31-36mn 15": up to 5.8 RP in bottom c Jltrabay Slim <i>llim battery:</i> up	n lb (2.6 kg) over	Letter productions InterV DVD r	Acces cts (co ideo V nodels ingerp	ss powere ombo mod VinDVD (d s) orint Softw	ed by So dels) combo,	onic
Architecture PC Card Std slot ExpressCard slot Ports	82801FE PCI bus, PCI bus (National hardward One Typ One Exp Two USE	BM ICH, ether (TI® P II Semi e even e I or T pressC B (Vers	H6-M I/O net MAC CI1510 (iconducto it log, par Type II slo ard/34 or sion 2.0)	Controller I , USB, Low CardBus coon® PC8394 rallel, infrare ot / CardBus r ExpressCa / parallel / e	Hub (SATA1 Pin Count htroller, Min T Super I/C ed, [docking s 32-bit / int ard/54 / PC xternal DB-	I50, AT/ [LPC] ir i PCI, e o for sec y-based egrated I Expres -15 mor	A-100 EIE aterface, [external	Cont Hub (GME, PCI Expres Bluetooth], [fin- (pansion) / LP((TPM), Asset rial, diskette]) ISB 2.0 / integrared (4Mbps) / erial ports (us	s x1, 'gerprint]) / C bus ID,	(fingerprint models) • IBM Client Security Software (for security chip) / Downloadable (all) • IBM Director Agent • Software Delivery Assistant • System Migration Assistant				
Video out Wireless antenna Mini PCI Intel 11b/g³² CDC Modem	UltraCor One Min 11b/g W One Cor	nnect™ ii PCI t i-Fi³² w mmuni	Antenna type III slovireless4, cations D	ot (Commui	ne display on nications Bantel PRO/World ard (CDC) s	cover fo ay) / cus ireless cocket /	r optimal stomer up 2200BG, customer	wireless signal gradable Intel 82532 ch accessible		ThinkVa	intage	ebooks im ™ techno om.com/t	logies a	and
Bluetooth™ Ethernet Audio support Security Security chip Fingerprint reader	None Gigabit e Soft aud stereo s microphe Power-o IBM Em r Some: I	etherno lio / ICI peaker one inp n pass bedde Finger	et on sys H AC97 ors / 1 wat out jack (sword / ha ed Secur print rea	temboard / controller / [t / volume u 3.5 mm; pir ard disk pas ity Subsys ider on pal	Broadcom DirectSound p, down, m k) / headph sword / sup tem 2.0 ³³ / m rest / sw	BCM57 d® supp ute butt none jac pervisor hardwa ipe sen	51M (MA ort / AD19 tons / inte ck (3.5 mr passwor re key sto sor / integ	C/PHY) / PCIe 981B AC97 coornal microphor n; green) d / security key rage / TCG-co rated with sect	dec / ne / /hole mpliant urity chip	Asset II chip a PC 200 ACPI 1. CIM and PXE 2.1 IBM Ima	D™,34 (: access 1-com 0b and d DMI l-comp ageUlt	d 2.0-com 2.0-comp oliant ra™ Servi	pecific in network) npliant oliant ices ava) ailable
256MB PC2-420 512MB PC2-420	00 DDR2 I 00 DDR2 I	NP CL NP CL	4 SOD 4 SOD	73P3840 73P3842	ThinkPace	d T40/R d T40/R	50 Li-lon 50 Li-lon	Battery 6-cell Battery 9-cell	92P1101 92P1102	24 hour suppo	x 7 da ort dur	Varranty S ay ¹⁸ toll-fre ing the ware 2 2vr IOR	ee warra arranty	anty
1GB PC2-4200 [IBM USB 2.0 Poi IBM USB 2.0 Me IBM USB 2.0 Me IBM USB 2.0 Me IBM 4GB Microd 40GB HS Hard E 80GB HS Hard E IBM USB Portab Second HDD Ad Multi-Burner Plus IBM Enh Perf Wi	rtable Mulemory Keyemory Keyemory Keylrive® with Disk 9.5mmle Diskett lapter for Us Ultrabayireless Kyl	Iti-Burr 128W 256W 512W PC Cam (540m (540m) EDrive Ultraba Slim of and	ner Drive IB IB IB ard 00 rpm) 00 rpm) e ay Slim Drive I Mouse	73P4512 22P9226 22P923 09N428 08K9816 09N427 05K927 62P455 73P334 73P406	3 ThinkPác 2 ThinkPac 3 IBM 11a. 4 Intel PRC 5 IBM 11a. 6 ThinkPac 6 ThinkPac 7 IBM M4C	d Multip d 72W / /b/g Wir O/Wireld /b/g Wir d Port F d Mini D d Dock d Carry d Carry d Carry	ole Battery AC/DC Co reless Miress 22001 reless Ca Replicator Dock II ring Case ring Case	- BackPack	22P9040 22P9010 73P4301 73P2801 31P9101 74P6733 287810U 287710U 73P3599 73P3600 0037A04	Service Service Service Service	Pac 3y Pac 4y Pac 5y Pac 4y Pac 5y	yr IOR 9x: yr IOR 9x: yr IOR 9x: yr P&L P/ yr P&L P/	30 5 NBD 5 NBD 69 5 NBD 69 U Depo 69 U Depo 69	0L9190 0L9197 0P9198 0P9200 ot 0P9199 ot 0P9201
IBM USB Travel I IBM Optical 3-Bu Kensington® Mici SonyEricsson® C	utton Trave roSaver® GC83 EDC	el Whe Securi SE PC	el Mouse ty Cable Card	73P2582 26K3393	IBM C40 TrackPoi Other op	0 Proje nt Cap tions at	ctor Collectior i ibm.con	I I/pc/us/access		agreem	ents a com/s ospleu	ervices/it	s/us/so	urce/

	0=== 1	2	nhias D'al		Mini PCI	CDC	Finger		(horse (W)	
	Speed GHz Memory	Screen cont	phics Disk roller GB ⁸		Comm Bay wireless		™ reader	rity Chip or C	Entry (E) c	date
1871-4AU Pentiu 1871-4CU Pentiu 2668-41U Pentiu 2668-42U Pentiu 2668-43U Pentiu 2668-49U Pentiu 2668-45U Pentiu 2668-45U Pentiu 2668-46U Pentiu 2668-4FU Pentiu 2668-71U Pentiu 2668-73U Pentiu 2668-73U Pentiu 2668-73U Pentiu 2668-74U Pentiu 2668-74U Pentiu	Im® M 750 1.86 512MB Im M 750 2.00 512MB Im M 760 2.00 512MB	14.1" XGA G 14.1" XGA G 14.1" XGA X 14.1" SXGA+ X	300 40HS 300 40HS 300 80HS 300 80HS 300 80HS 300 80HS 300 80HS	Combo Combo Combo DVD DVD Combo Combo Combo Combo Combo Combo Combo Combo DVD±RW Combo DVD+RW Combo DVD+RW Combo DVD+RW	* Intel 11a/b/g IBM 11a/b/g II ³²	Mod/Blu 3 ⁶ Modem Modem Modem Modem Modem Modem Mod/Blu Mod/Blu Mod/Blu Mod/Blu Mod/Blu Mod/Blu Mod/Blu Mod/Blu	e No No No No Finger e Finger e Finger e Finger e No e No e Finger e Finger e Finger e Finger	Yes 915GM Yes 915GM Yes 915GM Yes 915GM Yes 915PM Yes 915PM	W G Feb W Feb W G Feb Feb Feb Feb	05 05 05 05 05 05 05 05 05 05
Positioning Processor	Perfect balance of pe Intel® Pentium® M P							SOFTWARE		
L2 cache Memory	Intel SpeedStep™ ted 2MB / on die (at prod 256MB or 512MB sto channel capable / two	chnology¹, Execu essor speed) / E d / 2GB max² / P(o 200-pin SO-DII	te Disable I CC C2-4200 53 MM sockets	Bit, and 5 3MHz DE 3 / std mer		/ dual	Microsoft Profession Disk-to-D	KP Professio Windows Anal ²⁰ (Service Visk Recovery A protected ar	P Pack 2)	
Diskette drive DVD Combo DVD±RW Ultrabay Slim Disk	Some: DVD-ROM/CI Some: DVD and CD One modular bay for	24X-8X ⁹ speed / ID-RW / 24X/24X/burner / Multi-Buinterchangeable b) or 80GB HS (5) ports 2nd disk /	bootable / re /24X/8X ²¹ sp Irner Plus / devices (rig 400 rpm) /	emovable peed / rer removabl ght side) / 9.5mm hi	9.5mm high bay gh / removable, upgrad	Slim dable /	reloaded IBM Reso Access II Access C Norton A PC-Docto ThinkPac	cue and Reco BM Connections ntiVirus or™ I Utilities	,	
Display	Some: 14.1" (358.1r Some: 14.1" (358.1r				ive Matrix / 150 nits / Active Matrix / 150 ni	ts •		ate Connector		
Graphics	Some: Intel Graphic 915GM GMC	s Media Accele H / uses main m	rator 900 (emory (up t	GMA 900 to 128MB) / integrated graphics with 256MB+) / 200Ml x16 / 64MB GDDR1 m	in Hz	Letter Ac products	ordNOW and cess powered (combo, DVD o WinDVD (cd	by Sonic ±RW)	
Keyboard TrackPoint® Touch pad ThinkLight™	TrackPoint® pointing of UltraNav™ multi-poin Illuminates the keybo	device, "Press-to- ting system / tou- ard to improve vi	-Select," Int ch pad belo isibility in lo	ernet Scr w keyboa w-light co	nditions	ys) lass /	DVD±RW InterVide (DVD±RV IBM Simp	/ models) o WinDVD Cro V models) ble Backup (D erprint Softwa	eator VD±RW)	
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	with optical drive and Magnesium composi Lithium Ion 6-cell / in	battery: up to 5.2 te in the top cove telligent / suppor	2 lb (2.3kg) er, titanium- ts unique 2	reinforced	255mm x 26.6-31.4mm I CFRP in bottom cove y in Ultrabay Slim yay Slim battery: up to	er .	(fingerpri	nt models) nt Security So chip)		
Architecture	Some: Mobile Intel Some: Mobile Intel All: 82801FBM IC PCI Express x1, PCI [Bluetooth], [fingerpri	915GM Express 915PM Express CH6-M I/O Contro bus, ethernet M/ nt]) / PCI bus (Ca	Chipset / 8 chipse	82915GM 32915PM ATA150, A ow Pin Co troller, Mi	Graphics Mem Cont I Memory Controller Hu ATA-100 EIDE, bunt [LPC] interface, ni PCI, external expans	Hub lb •	Software System M	ctor Agent Delivery Assi Aigration Assi	stant	
PC Card Std slot ExpressCard slo Ports	parallel, infrared, [do t One Type I or Type II t One ExpressCard/34 Two USB (Version 2.	cking-based port slot / CardBus 3 or ExpressCard 0) / parallel / exte	s (serial, dis 2-bit / integ /54 / PCI Ex ernal DB-15	skette]) rated doo xpress x1 monitor/	or USB 2.0 / integrate	ed door U	hinkVanta esign; vis niversal 7 C 2001-c	ige™ technolo it ibm.com /th '2 watt AC ad	gies and nkvantage apter	
Video out Wireless antenna Mini PCI Wireless upg ^{3t} Intel 11b/g ³² Intel 11a/b/g ³²	S-video out port (TV a UltraConnect™ Anter One Mini PCI type III § Some: wireless upgr Some: 11b/g Wi-Fi³² Some: 11a/b/g wirele	out) / one 4-pin in nna built into the slot (Communica adable with wirel wireless ⁴ , Mini Pess ⁴ , Mini PCI, In	ndustry star display cover ations Bay) ess Mini PC CI, Intel PR tel PRO/Wi	ndard cor er for opti / custome CI options RO/Wirele reless 29	inector mal wireless signal rec er upgradable ss 2200BG, Intel 8253 15ABG, 82533 chipset	ception IE Ir 2 chip	IM and D XE 2.1-co BM Image ternation 4 hour x 7 support	MI 2.0-compli ompliant Ultra™ Servic al Warranty S ′ day¹ ⁸ toll-free during the wa	ant es availabl ervice ¹⁷ e warranty ranty ¹²	
CDC	32 Some: 11a/b/g wirele One Communication:	s Daughter Card	(CDC) sock	ket / custo	mer accessible			c ^{®, 22} 2yr IOR 9	30L91	90
Modem Bluetooth™ Ethernet	56K ⁶ V.90 (V.92-designos) Some: Bluetooth wire	eless technology	/ in CDC (v	with mode		/ DVE		3yr IOR 9x5	30L919	97
Audio support	Soft audio / ICH AC9 stereo speakers / 1 w	7 controller / Dire vatt / volume up,	ectSound® s down, mute	support / /	ÀD1981B AC97 codec ' internal microphone /	1		4yr IOR 9x5	69P91	98
Security Security chip	microphone input jac Power-on password / IBM Embedded Sec	k (3.5 mm; pink) hard disk passw urity Subsyste n	/ headphon ord / super n 2.0 33 / har	ie jack (3. visor pas: rdware ke	5 mm; green) sword / security keyhol y storage / TCG-comp	le liant S		5 5yr IOR 9x5 5 4yr P&L P/U	69P92	
Fingerprint reade	er Some: Fingerprint r 12 3 years/1 yr battery -	eader on palm ı	rest / swipe	sensor /	integrated with security	/ chip S	ervicePa	5yr P&L P/U		
	important warranty inforn		<u> </u>		ntrino™ mobile technolo		(「3) © IBM Cor		

		M DOI		5' 0 W. 11 (AD)
Type-model Pro	Speed Graphics Disk cessor GHz Memory Screen controller GB ⁸ Optical	Mini PCI Comm Bay I wireless	CDC modem/ Bluetooth	Finger Secu- Workhorse (W) print rity Chip or Global (G) Avail reader chip set or Entry (E) date
2668-87U Pentiun 2668-83U Pentiun 2668-88U Pentiun 2668-85U Pentiun 2668-91U Pentiun 2668-91U Pentiun 2668-93U Pentiun 2668-92U Pentiun 2668-94U Pentiun 2668-95U Pentiun 2668-96U Pentiun 2668-96U Pentiun	n° M 750 1.86 512MB 15.0" XGA	* Intel 11a/b/g * Intel 11b/g³² * Intel 11b/g * Intel 11a/b/g IBM 11a/b/g II RW IBM 11a/b/g II	Modem Modem Modem Modem Modem Mod/Blue Mod/Blue Mod/Blue Mod/Blue Mod/Blue Mod/Blue Mod/Blue Mod/Blue	No Yes 915PM W Feb 05 Finger Yes 915PM W Feb 05 Finger Yes 915PM W Feb 05 Finger Yes 915PM Feb 05
Positioning Processor	Perfect balance of performance and portability; two-spino Intel® Pentium® M Processor 750 (1.86GHz) or 760 (2.0			SOFTWARE ¹⁴
L2 cache Memory Diskette drive	Intel SpeedStep™ technology¹, Execute Disable Bit, and 2MB / on die (at processor speed) / ECC 512MB std / 2GB max² / PC2-4200 533MHz DDR2 / non-capable / two 200-pin SO-DIMM sockets / std mem in one None standard / use optional USB-based diskette drive	533MHz system bus -parity / CL4 / dual cha e socket / one socket a	nnel available	Windows XP Professional - Microsoft® Windows® XP Professional™ (Service Pack 2) ♦ Disk-to-Disk Recovery (in hidden protected area)
Combo DVD±RW Ultrabay Slim Disk	Some: DVD-ROM/CD-RW / 24X/24X/24X/8X ²¹ speed / re Some: DVD and CD burner / Multi-Burner Plus / removal One modular bay for interchangeable devices (right side) 40GB ⁸ HS (5400 rpm), 60GB ⁸ Ultra HS (7200 rpm), or 81 9.5mm high / removable, upgradable / 9.5mm high bay / s IBM Hard Disk Drive Shock Absorber / IBM Active Pro	ole from Ultrabay Slim / 9.5mm high bay 0GB HS (5400 rpm) / supports 2nd disk /	, -	Preloaded IBM Rescue and Recovery™ Access IBM Access Connections Norton AntiVirus PC-Doctor™
Display	Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Ac Some: 15.0" (381.0mm) SXGA+ (1400x1050) TFT color FlexView display with wide viewing angle and high	r / Active Matrix / 200 r	nits /	 ThinkPad Utilities Adobe Reader IBM Update Connector^{TM,15} IBM RecordNOW and Drive
Graphics	Some: Intel Graphics Media Accelerator 900 (GMA 90 915GM GMCH / uses main memory (up to 128MB Some: ATI® MOBILITY™ RADEON® X300 / PCI Express	B with 256MB+) / 200N	ЛHz	Letter Access powered by Sonic products (combo, DVD±RW) InterVideo WinDVD (combo,
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM button / palm rest / pitch: 19mm; strr TrackPoint® pointing device, "Press-to-Select," Internet So UltraNav™ multi-pointing system / touch pad below keybo Illuminates the keyboard to improve visibility in low-light of	croll Bar ¹³ , magnifying op pard / Tap Zones	eys) glass /	DVD±RW models) • InterVideo WinDVD Creator (DVD±RW models) • IBM Simple Backup (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.0" models (WxDxH): 13.0" x 10.6" x 1.2-1.4"; 329mm x with optical drive and battery: up to 5.9 lb (2.7kg) Magnesium composite in the top cover, titanium-reinforce Lithium Ion 6-cell / intelligent / supports unique 2nd batte Up to 3.9 hr; Optional 9-cell: up to 5.9 hr; 9-cell plus Ultra	ed CFRP in bottom covery in Ultrabay Slim	er er	IBM Fingerprint Software (fingerprint models) IBM Client Security Software (for security chip) Downloadable
Architecture	Some: Mobile Intel 915GM Express Chipset / 82915GN Some: Mobile Intel 915PM Express Chipset / 82915PM All: 82801FBM ICH6-M I/O Controller Hub (SATA150,	M Graphics Mem Cont M Memory Controller H	Hub	IBM Director AgentSoftware Delivery AssistantSystem Migration Assistant
	PCI Express x1, PCI bus, ethernet MAC, USB, Low Pin C [Bluetooth], [fingerprint]) / PCI bus (CardBus controller, M LPC bus (NS PC8394T Super I/O for security chip (TPM)	Count [LPC] interface, 1ini PCI, external expai	nsion) /	ThinkPad notebooks implement IBM ThinkVantage™ technologies and design; visit ibm.com /thinkvantage
PC Card Std slot ExpressCard slot Ports	parallel, infrared, [docking-based ports (serial, diskette]) One Type I or Type II slot / CardBus 32-bit / integrated do One ExpressCard/34 or ExpressCard/54 / PCI Express x Two USB (Version 2.0) / parallel / external DB-15 monitor RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mous	1 or USB 2.0 / integrat / infrared (4Mbps) /	ed door	Universal 72 watt AC adapter Asset ID™3⁴ (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant
Video out Wireless antenna Mini PCI Intel 11b/g ³² Intel 11a/b/g ³² IBM 11a/b/g II ³² CDC	S-video out port (TV out) / one 4-pin industry standard co UltraConnect™ Antenna built into the display cover for op One Mini PCI type III slot (Communications Bay) / custon Some: 11b/g Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wirel Some: 11a/b/g wireless⁴, Mini PCI, Intel PRO/Wireless 20 Some: 11a/b/g wireless⁴, IBM 11a/b/g Mini PCI Adapter one Communications Daughter Card (CDC) socket / custon	timal wireless signal re ner upgradable ess 2200BG, Intel 825 915ABG, 82533 chipse II, Atheros AR5004X c tomer accessible	eception 32 chip et hipset	CIM and DMI 2.0-compliant PXE 2.1-compliant IBM ImageUltra™ Services available International Warranty Service ¹⁷ 24 hour x 7 day¹8 toll-free warranty support during the warranty¹²
Modem Bluetooth™ Ethernet Audio support	56K ⁶ V.90 (V.92-designed ²⁹) modem in CDC / Conexant [®] Some: Bluetooth wireless technology / in CDC (with mod Gigabit ethernet on systemboard / Broadcom BCM5751N Soft audio / ICH AC97 controller / DirectSound [®] support / stereo speakers / 1 watt / volume up, down, mute buttons	lem) /I (MAC/PHY) / PCIe x / AD1981B AC97 code	1 / PXE	ServicePac ^{®, 22} 2yr IOR 9x5 NBD 30L9190 ServicePac 3yr IOR 9x5 NBD 30L9197 ServicePac 4yr IOP 9x5 NBD
	microphone input jack (3.5 mm; pink) / headphone jack (3.5 mm; pink) / supervisor past IBM Embedded Security Subsystem 2.033 / hardware k Some: Fingerprint reader on palm rest / swipe sensor in the supervisor past / swipe sensor past / sw	3.5 mm; green) ssword / security keyho ey storage / TCG-com / integrated with securi	ole pliant ty chip	ServicePac 4yr IOR 9x5 NBD 69P9198 ServicePac 5yr IOR 9x5 NBD 69P9200 ServicePac 4yr P&L P/U Depot 69P9199
256MB PC2-420 512MB PC2-420 1GB PC2-4200 D 80GB HS Hard D	D DDR2 NP CL4 SOD 73P3842 ThinkPad T40/R50 L DR2 NP CL4 SOD 73P3844 IBM 11a/b/g Wireles isk 9.5mm (5400 rpm) 09N4273 ThinkPad Port Repli	Li-Ion Battery 6-cell 9: Li-Ion Battery 9-cell 9: ss Mini PCI Adptr II 7: cator II 7:	2P1101 2P1102 3P4301 4P6733	ServicePac 5yr P&L P/U Depot 69P9201 Post-warranty annual maintenance agreements at ibm.com/services/its/us/source/
<u> </u>	bm.com/pc/us/accessories	2i entrino™ mobile technol	87710U	maspspleu.pdf (T4) © IBM Corp. January 200

		Crambias	Mini DOI	000	F !	Page Dat Mandala (040)
	Speed cessor GHz Memory Screen	Graphics controller Disk memory GB ⁸ Optical	Mini PCI Comm Bay wireless		n/ print h™ reader	Secu- Bat- Workhorse (W) rity tery or Global (G) Avai chip life ¹⁰ or Entry (E) date
2668-G3U Pentiur 2668-G2U Pentiur 2668-G5U Pentiur 2668-G7U Pentiur 2668-H1U Pentiur 2668-H3U Pentiur 2668-H2U Pentiur 2668-H4U Pentiur 2668-H5U Pentiur 2668-H5U Pentiur	m® M 770 2.13 1GB 14.1" SXGA- m M 770 2.13 1GB 15.0" UXGA m M 770 2.13 1GB 15.0" UXGA	+ 128MB 60U Combo + 128MB 60U DVD±RW + 128MB 60U Combo + 128MB 60U Combo + 128MB 60U DVD±RW 128MB 60U Combo 128MB 60U Combo 128MB 60U DVD±RW 128MB 60U DVD±RW 128MB 60U DVD±RW 128MB 60U DVD±RW 128MB 60U Combo	IBM 11a/b/g II ³² IBM 11a/b/g II / IBM 11a/b/g II * Intel 11a/b/g IBM 11a/b/g I * Intel 11b/g ³² * Intel 11a/b/g / * Intel 11a/b/g IBM 11a/b/g IBM 11a/b/g II	Mod/Blu Mod/Blu Mod/Blu Mod/Blu Mod/Blu Mod/Blu Mod/Blu Mod/Blu Mod/Blu Mod/Blu Mod/Blu Mod/Blu Mod/Blu Mod/Blu	e No le Finger le No le No le No	Yes 5.2 hr Apr 05 Yes 5.2 hr Apr 05 Yes 5.1 hr Apr 05 Yes 5.2 hr Apr 05 Yes 5.2 hr Apr 05 Yes 5.1 hr Apr 05 Yes 4.8 hr Apr 05 Yes 4.7 hr Apr 05
Positioning	Perfect balance of performance an					SOFTWARE ¹⁴
Processor L2 cache Memory	Intel® Pentium® M Processor 770 technology¹, Execute Disable Bit, 2MB / on die (at processor speed) 1GB std / 2GB max² / PC2-4200 5 capable / two 200-pin SO-DIMM s	and 533MHz system bus) / ECC 533MHz DDR2 / non-parity	/ CL4 / dual channe		- Microsof Professi	XP Professional it® Windows® XP onal ²⁰ (Service Pack 2) Disk Recovery on protected area)
Diskette drive DVD Combo DVD±RW Ultrabay Slim Disk	None standard / use optional USE Some: DVD-ROM / 24X-8X° spee Some: DVD-ROM/CD-RW / 24X/2 Some: DVD and CD burner / Mult One modular bay for interchangea 60GB° Ultra HS (7200 rpm) / 9.5 supports 2nd disk / IBM Hard Dis IBM Active Protection System	d / bootable / removable fr 24X/24X/8X ²¹ speed / remo i-Burner Plus / removable ible devices (right side) / 9 nm high / removable, upgr k Drive Shock Absorber	ovable from Ultrabay from Ultrabay Slim .5mm high bay adable / 9.5mm high /	ı bay /	Preloaded IBM Res Access (Access (Norton A PC-Doct ThinkPa	scue and Recovery™ BM Connections AntiVirus or™ d Utilities
Display	Some: 14.1" (358.1mm) SXGA+ Some: 15.0" (381.0mm) UXGA (1 FlexView display with wide	600x1200) TFT color / Ad	ctive Matrix / 200 nit	s/	 IBM Red 	date Connector™.15 cordNOW and Drive ccess powered by Sonic
Graphics	ATI® MOBILITY™ FireGL™ V3200		<u>.</u>		products	s (combo, DVD±ŘW)
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM button / palm TrackPoint® pointing device, "Press UltraNav™ multi-pointing system / Illuminates the keyboard to improv	s-to-Select," Internet Scrol touch pad below keyboard	l Bar¹³, magnifying g d / Tap Zones		DVD±RV • InterVide (DVD±R	eo WinDVD (combo, V models) eo WinDVD Creator W models) ple Backup (DVD±RW)
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models (WxDxH): 12.2" x 10 15.0" models (WxDxH): 13.0" x 10 with optical drive and battery: 14.1 Magnesium composite in the top of Lithium Ion 9-cell / intelligent / sup 9-cell: up to 5.2 hr; 9-cell plus Ultr.	0.6" x 1.2-1.4"; 329mm x 20 " models: up to 5.5 lb (2.5k cover, titanium-reinforced Coports unique 2nd battery i	68mm x 31-36mm g); <i>15":</i> up to 6.3 lb CFRP in bottom cove in Ultrabay Slim	(2.9 kg)	 IBM Fing (fingerpring) IBM Cliesecurity Download	gerprint Software int models) int Security Software (for chip) lable
Architecture	Mobile Intel 915PM Express Chi 82801FBM ICH6-M I/O Controller PCI bus, ethernet MAC, USB, Low PCI bus (Ricoh® R5C811 CardBus (National Semiconductor® PC839- hardware event log, parallel, infrar One Type I or Type II slot / CardBu	Hub (SATA150, ATA-100 E Pin Count [LPC] interface s controller, Mini PCI, exter T Super I/O for security of ed, [docking-based ports (EIDE, PCI Exprèss » e, [Bluetooth], [fingel rnal expansion) / LP hip (TPM), Asset ID	:1, ´ print]) / C bus	Software System License (Lotus® S Lotus No.	ector Agent De Delivery Assistant Migration Assistant CD not included) GmartSuite® Millennium and Otes® Stand-alone Client
ExpressCard slot Ports	One ExpressCard/34 or ExpressC Two USB (Version 2.0) / parallel / RJ-11 (modem) / RJ-45 (ethernet)	card/54 / PCI Ēxpress x1 o external DB-15 monitor / ir	nfrared (4Mbps) /		ThinkVant design; vis	notebooks implement IBM age™ technologies and sit ibm.com /thinkvantage
Video out Wireless antenna Mini PCI Intel 11b/g³² Intel 11a/b/g³² IBM 11a/b/g II³² CDC Modem Bluetooth™ Ethernet Audio support	One Mini PCI type III slot (Commu Some: 11b/g Wir-Fi ³² wireless ⁴ , Mi Some: 11a/b/g wireless ⁴ , Min PC Some: 11a/b/g wireless ⁴ , IBM 11a One Communications Daughter C 56K ⁶ V.90 (V.92-designed ²⁹) mode Bluetooth wireless technology / in Gigabit ethernet on systemboard / Soft audio / ICH AC97 controller / stereo speakers / 1 watt / volume	the display cover for optim inications Bay) / customer in PCI, Intel PRO/Wireless I, Intel PRO/Wireless 2915 lab/g Mini PCI Adapter II, A ard (CDC) socket / custom in CDC / Conexant® chil CDC (with modem) Broadcom BCM5751M (N DirectSound® support / AL up, down, mute buttons / in	al wireless signal re upgradable 2 2200BG, Intel 825; ABG, 82533 chipse Atheros AR5004X cher accessible pset MAC/PHY) / PCIe x1 01981B AC97 code oternal microphone	32 chip t inipset / PXE	Asset ID™ chip acc PC 2001-c ACPI 1.0b CIM and E PXE 2.1-c IBM Image Internation 24 hour x support	and 2.0-compliant DMI 2.0-compliant Compliant Could be serviced available all Warranty Service ¹⁷ 7 day ¹⁸ toll-free warranty during the warranty ¹² co. 22 2yr IOR 9x5 NBD
<u> </u>	microphone input jack (3.5 mm; pi Power-on password / hard disk pa IBM Embedded Security Subsys Some: Fingerprint reader on pa	ssword / supervisor passw stem 2.0 ³³ / hardware key Im rest / swipe sensor / in	ord / security keyho storage / TCG-comp tegrated with securit	oliant y chip		30L9190 ic 3yr IOR 9x5 NBD 30L9197 ic 4yr IOR 9x5 NBD
256MB PC2-420 512MB PC2-420 1GB PC2-4200 I IBM USB 2.0 Me 80GB HS Hard D IBM USB Portabl Multi-Burner Plus IBM Enh Perf Wir	isk 9.5mm (5400 rpm) 09N427	O ThinkPad T40/R50 Li-Id 2 ThinkPad T40/R50 Li-Id 4 IBM 11a/b/g Wireless M O Intel PRO/Wireless 220 3 ThinkPad Port Replicat 6 ThinkPad Mini Dock 2 ThinkPad Dock II 7 ThinkPad Carrying Cas	on Battery 6-cell 92 on Battery 9-cell 92 Mini PCI Adptr II 73 00BG Mini PCI 73 or II 74 28 se - Leather 73	PP1101 PP1102 BP4301 BP2801 PP6733 B7810U B7710U BP3600	ServicePa ServicePa Post-warra agreemen ibm.co	69P9198 ic 5yr IOR 9x5 NBD 69P9200 ic 4yr P&L P/U Depot 69P9199 ic 5yr P&L P/U Depot 69P9201 anty annual maintenance ts at m/services/its/us/source/ oleu.pdf
See footnotes for in	nportant warranty information	* Powered by Intel Cent	rino™ mobile technol	oav	(T5) © IBM Corp. January 200

Type-model	Speed Processor GHz Mem	ory Screen	Graphics controller		ptical	Mini P Comm I wirele	Bay	CDC modem/ luetooth™	Finger print reader	Chip	Limited warranty	Avail date
T43 2668-C5U F T43 2668-C2U F T43 2668-C6U F T43 2668-C3U F T43p 2668-C4U F	Pentium® M 750 1.86 512M Pentium M 760 2.00 512M Pentium M 760 2.00 512M Pentium M 760 2.00 512M Pentium M 760 2.00 512M Pentium M 770 2.13 1GB Re models have an EasyS	MB 14.1" XGA MB 14.1" SXGA MB 14.1" SXGA MB 15.0" SXGA 15.0" UXGA	X300 6 x+ X300 8 x+ X300 8 x+ X300 6 X V3200 8	SOHS Co SOHS DV	'D±RW ombo 'D±RW ombo 'D±RW	* Intel 11a * Intel 11a	a/b/g a/b/g a/b/g a/b/g a/b/g	Modem Modem Modem Modem Modem Modem	No No No No	915PM 915PM 915PM 915PM	EasyServ EasyServ EasyServ EasyServ EasyServ EasyServ	Feb 05 Feb 05 Feb 05 Feb 05
These	educational models of the s organized and operated	ThinkPad note	book are av	vailable o	only to pu	ublic or pri	ivate K-1	12 (or hig			i	
Positioning Processor L2 cache Memory	Perfect balance of performintel® Pentium® M Proce enhanced Intel SpeedSte 2MB / on die (at processo 512MB or 1GB std / 2GB channel capable / two 20	ssor 750 (1.86 p™ technology or speed) / ECC max ⁷ / PC2-42	GHz), 760	(2.00GH Disable I z DDR2	lź) , or 77 Bit, and 5 / non-pa	533MHz b rity / CL4 .	us / dual	- Mic	ows X rosoft® fession	Window	ssional vs® XP rvice Pack	2)
Diskette drive Combo DVD±RW Ultrabay Slim Disk	None standard / use optic Some: DVD-ROM/CD-R\ Some: DVD and CD burr One modular bay for intel 40GB* HS (5400 rpm), 60 9.5mm high / removable, IBM Hard Disk Drive Sh	nal USB-base V / 24X/24X/24 ler / Multi-Burn- changeable de IGB [®] HS (5400 upgradable / 9.	d diskette d X/8X ²¹ specer Plus / rei vices (right rpm), or 80 5mm high l	Irive ed / rem movable : side) / 9 0GB HS bay / sur	ovable fr from Ult 9.5mm hi (5400 rp oports 2r	om Ultrab trabay Slin igh bay om) / nd disk /	ay Slim	(in I Prelo • Edu Vita vita Per: • IBM	nidden aded cation Source sonal F Rescu	software ce Techre KEY TM Portable ue and F	ed área) e from nologies®:	
Display	Some: 14.1" (358.1mm) Some: 14.1" (358.1mm) Some: 15.0" (381.0mm) FlexView display Some: 15.0" (381.0mm) FlexView display	SXGA+ (1400) SXGA+ (1400) with wide viewii UXGA (1600x1	(1050) TFT (1050) TFT ng angle an I 200) TFT (color / / color / / nd high d color / A	Active M Active M lensity us ctive Ma	atrix / 150 atrix / 200 sing IPS te trix / 200 i) nits) nits / echnolog nits /	• Acc • Nor • PC- • Thir • Add	ton An Doctor nkPad be Re	onnectio tiVirus •™ Utilities ader	ns ector ^{TM,15}	
Graphics	Some: Intel Graphics M 915GM GMCH / U Some: ATI® MOBILITY™ Some: ATI MOBILITY Fi	ises main mem RADEON® X3	ory (up to 1 00 / PCI Ex	128MB v kpress x	vith 256N 16 / 64M	ИВ+) / 200 В GDDR1	OMHz I memor	• IBN Lett prod • Inte	l Recor er Acc ducts (rVideo	rdNOW ess pow combo, WinDVI	and Drive vered by So DVD±RW) D (combo,	onic
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM button TrackPoint® pointing devict UltraNav™ multi-pointing Illuminates the keyboard	e, "Press-to-Se system / touch	elect," Interi pad below	net Scro keyboar	II Bar¹³, r d / Tap Z	magnifying		• Inte (DV • IBN	rVideo D±RW I Simpl	models e Backu	D Creator ;) ip (DVD±R	
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models (WxDxH): 1 15.0" models (WxDxH): 1 with optical drive and batte Magnesium composite in Lithium Ion 6-cell / intellig Up to 4 hr; Optional 9-cel	3.0" x 10.6" x 1 ery: 14.1" mode the top cover, t ent / supports f: up to 5.9 hr; s	.2-1.4"; 329 els: up to 5.2 itanium-rei unique 2nd 9-cell plus L	9mm x 2 2 lb (2.3k nforced I battery Ultrabay	:68mm x kg); <i>15":</i> CFRP in in Ultrab <i>Slim bat</i>	31-36mm up to 5.9 I bottom co ay Slim tery: up to	n lb (2.7 kç over 17.7 hr	sec Dowr • IBM • Sof	urity ch I loada l I Direct tware [nip) ble for Agen Delivery	y Software nt Assistant Assistant	(IOI
Architecture	Some: Mobile Intel 915(Some: Mobile Intel 915) All: 82801FBM ICH6- PCI Express x1, PCI bus, [Bluetooth], [fingerprint]), LPC bus (NS PC8394T S	PM Express Ch M I/O Controlle ethernet MAC PCI bus (Card uper I/O for see	nipset / 829 or Hub (SAT , USB, Low Bus contro curity chip (915PM N A150, A Pin Cou Iller, Mini (TPM), A	/lemory (TA-100 E unt [LPC] i PCI, ext	Controller IDE, interface, ternal exp	Hub , ansion)	/ Think og, desig	Vantag n; visit	je™ tech ibm.co	s implemer nnologies a m /thinkvan	ınd
PC Card Std slot ExpressCard slot Ports	parallel, infrared, [docking One Type I or Type II slot One ExpressCard/34 or E Two USB (Version 2.0) / p RJ-11 (modem) / RJ-45 (/ CardBus 32-b xpressCard/54 parallel / extern	oit / integrat I / PCI Expi al DB-15 m	ed door ress x1 o onitor / i	nfrared (4Mbps) /		Or Asset Chi PC 20	t ID™ ^{,34} p acce: 001-co	(systen ssed ove mpliant	C adapter n-specific in er network) compliant	
Video out Wireless antenna Mini PCI Intel 11a/b/g³² CDC Modem Bluetooth™	S-video out port (TV out) UltraConnect™ Antenna It One Mini PCI type III slot 11a/b/g wireless⁴, Mini PC One Communications Da 56K⁵ V.90 (V.92-designed None	ouilt into the dis (Communicatio I, Intel PRO/Wughter Card (C	play cover ons Bay) / c ireless 291 DC) socket	for optim customer 5ABG, 8 t / custor	nal wirele r upgrada 32533 ch ner acce	able ipset	receptio	CIM a PXE : IBM I Interr 24 ho	and DM 2.1-cor mageU nationa our x 7	II 2.0-co npliant Iltra™ So I Warrar day¹8 tol	ervices avanty Service ll-free warra e warranty	anty
Ethernet Audio support	Gigabit ethernet on syste Soft audio / ICH AC97 co stereo speakers / 1 watt / microphone input jack (3.	ntroller / Direct volume up, do 5 mm; pink) / h	Sound® sup wn, mute bi eadphone j	oport / À uttons / i jack (3.5	D1981B nternal r mm; gre	AC97 cod nicrophon en)	dec / ie /	Servi	cePac	3yr IOR	9x5 NBD 30	BD 0L9190 0L9197
Security Security chip Fingerprint reader		Subsystem 2	2. 0 ³³ / hardv	varė key	storage	/ TCG-cor	mpliant	Servi	_		9x5 NBD	P9198
	3 years/1 yr battery - Eas		<u> </u>					— Servi	cePac	4yr P&L	. P/U Depo	
512MB PC2-420 1GB PC2-4200 I IBM USB 2.0 Me 80GB HS Hard D Second HDD Ada	0 DDR2 NP CL4 SOD 0 DDR2 NP CL4 SOD DDR2 NP CL4 SOD mory Key 512MB Disk 9.5mm (5400 rpm) apter for Ultrabay Slim reless Kybd and Mouse	73P3842 Thi 73P3844 IBM 22P9230 IBM 09N4273 Thi 62P4554 Thi	nkPad T40/ nkPad T40/ /l 11a/b/g W /l 11a/b/g W nkPad Port nkPad Doc ner options	/R50 Li-I /ireless / /ireless / : Replica :k II	on Batte Mini PCI CardBus tor II	ry 9-cell Adptr II Adapter	92P110 73P430 31P910 74P673 287710	2 Servi 1 1 Post- 3 agree U ib i	warran ements	ty annua at /service	. P/U Depo	P9201 ance

® ThinkPac	d [®] T43 and	T43p (187	'2 and 2	2669) -	Edu	cation		Per			by IBM PC Reference	
Type-mode	I Processor	Speed GHz Memory	Screen	Graphics controller	Disk	Optical	Mini PCI Comm Bay wireless	CDC modem/ Bluetooth™	Finger print reader	Chip	Limited warranty	
T43 2669-C5U T43 2669-C6U T43 2669-C3U T43p 2669-C4U T43 2669-C7U T43 2669-C8U T43 2669-C9U T43p 2669-C9U T43p 2669-CAU • The		2.00 512MB 2.00 512MB 2.00 512MB 2.00 512MB 2.13 1GB 1.86 512MB 1.86 512MB 1.86 512MB 1.86 512MB de a limited ons	14.1" XGA 14.1" SXGA 15.0" SXGA 15.0" UXGA 15.0" UXGA 14.1" XGA 14.1" SXGA 15.0" SXGA 15.0" UXGA ite service ² nkPad noteb	A+ X300 A+ X300 A+ X300 A+ X300 A+ X300 A+ X300 A+ X300 A+ V3200 A V3200	60HS 80HS 80HS 60HS 80HS 40HS 40HS 80HS mited	Combo DVD±RW Combo DVD±RW Combo Combo DVD±RW DVD±RW Warranty e only to pu	* Intel 11a/b/g 32 * Intel 11a/b/g * Intel 11b/g * Intel 11b/g	Modem Modem Modem Modem Modem Modem Modem Modem Mod/Blue	No No No No No No No No	915PM 915PM 915PM 915PM 915PM 915PM 915PM 915PM	1 Onsite 1 Onsite 1 Onsite 1 Onsite 1 Onsite 1 Onsite 1 Onsite 1 Onsite 1 Onsite 1 Onsite	Feb 05 Feb 05 Feb 05 Feb 05 Apr 05 Feb 05 Feb 05
Positioning Processor _2 cache Memory	Intel® Pentiur enhanced Inte 2MB / on die 512MB or 1G	el SpeedStep™ (at processor sp B std / 2GB ma	r 750 (1.860 technology ¹ peed) / ECC x ⁷ / PC2-420	GHz) , 760 , Execute 00 533MH	(2.00G Disable z DDR	GHz) , or 77(e Bit, and 5: 2 / non-par		♦Disk-t	vs XP soft® W ssional o-Disk	Vindows ²⁰ (Servi Recove	sional ® XP ice Pack ery	2)
Diskette drive Combo DVD±RW Ultrabay Slim Disk	Some: DVD-F Some: DVD a One modular 40GB ⁸ HS (54 9.5mm high /	d / use optional ROM/CD-RW / 2 and CD burner / bay for intercha 100 rpm), 60GB removable, upg k Drive Shock	24X/24X/24) Multi-Burne ngeable dev 8 HS (5400 radable / 9.5	X/8X ²¹ spe er Plus / re vices (right rpm), or 8 5mm high	ed / rei movab t side) / 0GB H bav / s	le from Ultr / 9.5mm hig S (5400 rp) upports 2nd	ŋh bay m) / d disk /	• Educa Vital S vitalso Perso • IBM R	led ation so Source ource h nal Po tescue	Techno ⟨EY™ aı rtable lib and Re	from logies®: nd	
Display	Some: 14.1" Some: 15.0" FlexV Some: 15.0"	(381.0mm) UX(SA+ (1400x SA+ (1400x wide viewin SA (1600x1	1050) TFT 1050) TFT Ig angle ar 200) TFT (color color d high color /	/ Active Ma / Active Ma density usi Active Mat	trix / 150 nits trix / 200 nits / ng IPS technolog	• Inink	s Con n Anti\ octor™ Pad Ut e Reac	nections /irus tilities ler		
Graphics	915GN Some: ATI® N		main memo	ory (up to)0 / PCI Ex	128MB kpress	3 with 256M x16 / 64ME		IBM F Letter produ	ecordi Acces cts (co	NOW ars power pombo, D\	nd Drive red by So VD±RW) (combo,	
Keyboard TrackPoint [®] Touch pad ThinkLight™	TrackPoint® po UltraNav™ mu	ss IBM button / binting device, "I llti-pointing syst e keyboard to in	Press-to-Se em / touch p	lect," Inter oad below	net Sci keyboa	roll Bar¹³, m ard / Tap Zo	agnifying glass /	InterV (DVD: IBM S	±RW m Simple	VinDVD nodels) Backup	Creator (DVD±R	
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models 15.0" models with optical dri Magnesium co Lithium Ion 6 -	(WxDxH): 12.2" (WxDxH): 13.0" we and battery: omposite in the cell / intelligent	x 10.0" x 1. x 10.6" x 1. 14.1" mode top cover, ti / supports u	.0-1.2"; 31 .2-1.4"; 32 <i>ls:</i> up to 5. tanium-rei unique 2nd	1mm x 9mm x 2 lb (2. nforced batter	255mm x 2 268mm x 3 3kg); 15": u d CFRP in l ry in Ultraba	31-36mm p to 5.9 lb (2.7 kg pottom cover	Downlo IBM D Softw	ity chip adable Director are De	o) e r Agent elivery A	Software ssistant ssistant	(for
Architecture	Some: Mobile All: 82801 PCI Express > [Bluetooth], [fith LPC bus (NS)	e Intel 915GM le Intel 915PM I FBM ICH6-M I/ (1, PCI bus, eth ngerprint]) / PC PC8394T Supe	Express Ch O Controller ernet MAC, I bus (Cardl r I/O for sec	ipset / 825 r Hub (SAT USB, Low Bus contro curity chip	915PM (A150, Pin Co oller, Mi (TPM),	I Memory C ATA-100 EI ount [LPC]	ontroller Hub DE,	Lotus	Smail	rtSuite®	ıded) Millenniu -alone Cl	

PC Card Std slot ExpressCard slot Ports

Wireless antenna

Video out

Security Security chip One Type II or Type III slot / CardBus 32-bit / integrated door
One ExpressCard/34 or ExpressCard/54 / PCI Express x1 or USB 2.0 / integrated door Two USB (Version 2.0) / parallel / external DB-15 monitor / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mouse or serial ports (use USB) S-video out port (TV out) / one 4-pin industry standard connector UltraConnect™ Antenna built into the display cover for optimal wireless signal reception

Mini PCI Intel 11b/g³² Intel 11a/b/g³² CDC Modem Bluetooth™ Ethernet Audio support

UltraConnect™ Antenna built into the display cover for optimal wireless signal reception One Mini PCI type III slot (Communications Bay) / customer upgradable Some: 11b/g Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chip Some: 11a/b/g wireless⁴, Mini PCI, Intel PRO/Wireless 2915ABG, 82533 chipset One Communications Daughter Card (CDC) socket / customer accessible 56K⁶ V.90 (V.92-designed²ց) modem in CDC / Conexant® chipset Some: Bluetooth wireless technology / in CDC (with modem) Gigabit ethernet on systemboard / Broadcom BCM5751M (MAC/PHY) / PCIe x1 / PXE Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / stereo speakers / 1 watt / volume up, down, mute buttons / internal microphone / microphone input jack (3.5 mm; pink) / headphone jack (3.5 mm; green) Power-on password / hard disk password / supervisor password / security keyhole IBM Embedded Security Subsystem 2.0³³ / hardware key storage / TCG-compliant None

Fingerprint reader None Limited warranty¹² 3 years/1 yr battery, limited onsite service²⁴, 8 am - 5 pm, Mon - Fri coverage excluding holidays, next business day response time

parallel, infrared, [docking-based ports (serial, diskette])

ThinkPad notebooks implement IBM ThinkVantage™ technologies and design; visit ibm.com/thinkvantage

Universal 72 watt AC adapter Asset ${\rm ID^{TM,34}}$ (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant PXE 2.1-compliant IBM ImageUltra™ Services available International Warranty Service¹⁷ 24 hour x 7 day¹⁸ toll-free warranty support during the warranty¹²

Post-warranty annual maintenance agreements at

ibm.com/services/its/us/source/ maspspleu.pdf

Type-model	Processor	Speed GHz	Memory	Screen	Graphics controller	Disk GB ⁸	Optical	Mini PCI Comm Bay wireless	CDC modem/ Bluetooth™	Finger print reader	Limited Warranty	Workhorse or Global or Express	Avail
1875-D1U P	entium® M 740	1.73	256MB	14.1" XGA	GMA 900	40HS	DVD	*Intel 11b/g32	Modem	No	1 year	Express	Feb 05
1875-D2U P	entium M 740	1.73	256MB	14.1" XGA	GMA 900	40HS	Combo	*Intel 11a/b/g32	Modem	No	1 year	Express	Feb 05
1875-D6U P	entium M 740	1.73	256MB	14.1" XGA	GMA 900	40HS	Combo	*Intel 11a/b/g	Modem	Finger	1 year	Express	Feb 05
1875-D9U P	entium M 740	1.73	256MB	15.0" XGA	GMA 900	40HS	Combo	*Intel 11a/b/g	Modem	No	1 year	Express	Feb 05
1875-DAU P	entium M 740	1.73	256MB	15.0" XGA	GMA 900	40HS	Combo	★ Intel 11a/b/ğ	Modem	Finger	1 year	Express	Feb 05
•	These small a	and me	dium bu	siness (SMB) models ar	e part o	f the IBM	US Think Expres	s Program				
•	These 1875 m	odels	have a 1	vear limited	warrantv (c	ther Th	inkPad T4	3/T43p 2687 Exp	ress mode	Is have	a 3 vear li	imited warra	antv)

	m M 740 1.73 256MB 1 m M 740 1.73 256MB 1						em No 1 year Express Feb 05 em Finger 1 year Express Feb 05
	se small and medium busi se 1875 models have a 1 y						ram odels have a 3 year limited warranty)
Positioning Processor L2 cache Memory	Perfect balance of performance of performance intel® Pentium® M Procest technology¹, Execute Dis 2MB / on die (at processon 256MB std / 2GB max² /	mance and ssor 740 (1 able Bit, and or speed) / I PC2-4200 5	portability; two-s 1.73GHz) with end d 533MHz syster ECC 533MHz DDR2 /	pindle system hanced Intel Sp n bus non-parity / CL4	eedStep	, ™ nannel	SOFTWARE ¹⁴ Windows XP Professional - Microsoft® Windows® XP Professional ²⁰ (Service Pack 2)
Diskette drive DVD Combo Ultrabay Slim Disk	capable / two 200-pin SO None standard / use optic Some: DVD-ROM / 24X- Some: DVD-ROM/CD-R\ One modular bay for inter 40GB ⁸ HS (5400 rpm) / 9 supports 2nd disk / IBM IBM Active Protection S	onal USB-b 8X° speed / V / 24X/24X changeable .5mm high Hard Disk I	ased diskette driv / bootable / remov X/24X/8X ²¹ speed e devices (right s / removable, upg	/e /able from Ultrabl / removable fro ide) / 9.5mm hig radable / 9.5mm	bay™ Slii m Ultrab jh bay	m ay Slim	 Disk-to-Disk Recovery (in hidden protected area) Preloaded IBM Rescue and Recovery™ Access IBM Access Connections Norton AntiVirus PC-Doctor™
Display	Some: 14.1 " (358.1mm) Some: 15.0 " (381.0mm)	XGA (1024					ThinkPad Utilities Adobe Reader
Graphics	Intel Graphics Media Ac GMCH / uses main memo				nics in 91	5GM	IBM Update Connector™.15 IBM RecordNOW and Drive Letter Access powered by Sonic
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM butt TrackPoint® pointing devic UltraNav™ multi-pointing Illuminates the keyboard	ce, "Þress-to system / to	o-Select," Interne uch pad below ke	t Scroll Bar ¹³ , m eyboard / Tap Zo	agnifying		products (combo models) InterVideo WinDVD (combo, DVD models) IBM Fingerprint Software
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models (WxDxH): 1 15.0" models (WxDxH): 1 with optical drive and batt Magnesium composite in Lithium Ion 6-cell / intellig Up to 3.9 hr; Optional 9-ce	3.0" x 10.6" ery: <i>14.1" n</i> the top cov gent / suppo	" x 1.2-1.4"; 329n nodels: up to 5.1 l ver, titanium-reinforts unique 2nd b	nm x 268mm x 3 b (2.3kg); <i>15":</i> u orced CFRP in b attery in Ultraba	31-36mm p to 5.8 l pottom co sy Slim	b (2.6 kg) over	(fingerprint models) IBM Client Security Software (for security chip) Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant
	Mobile Intel 915GM Exp 82801FBM ICH6-M I/O C PCI bus, ethernet MAC, L PCI bus (TI® PCI1510 Ca (National Semiconductor hardware event log, paral One Type I or Type II slot One ExpressCard/34 or E Two USB (Version 2.0) / RJ-11 (modem) / RJ-45 (controller Hu JSB, Low P IrdBus cont PC8394T Iel, infrared / CardBus ExpressCard parallel / ext	ub (SATA150, AT/ in Count [LPC] ir roller, Mini PCI, e Super I/O for set I, [docking-based 32-bit / integrated d/54 / PCI Expre- ternal DB-15 moi	A-100 EIDE, PCI terface, [Bluetor external expansic curity chip (TPM) ports (serial, dis I door ss x1 or USB 2.0 hitor / infrared (4	I Express oth], [fing on) / LPC), Asset skette]) O / integra Mbps) /	s x1, 'gerprint]) / C bus ID, atted door	License (CD not included) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Mini PCI Intel 11b/g³² Intel 11a/b/g³² CDC Modem Bluetooth™ Ethernet Audio support Security Security chip Fingerprint readel	S-video out port (TV out) UltraConnect™ Antenna I One Mini PCI type III slot Some: 11b/g Wi-Fi³²² wire Some: 11a/b/g wireless⁴, One Communications Da 56K° V.90 (V.92-designed Some: Bluetooth wireles: Gigabit ethernet on syste Soft audio / ICH AC97 co stereo speakers / 1 watt / microphone input jack (3. Power-on password / har IBM Embedded Security Some: Fingerprint read 2 1 year - EasyServ™.¹9 on	/ one 4-pin puilt into the (Communic Ileas*, Mini i Mini PCI, I ughter Card se technolog mboard / B ntroller / Di volume up, 5 mm; pink, d disk pass*	industry standare display cover fo cations Bay) / cur PCI, Intel PRO/Wireles d (CDC) socket / in CDC / Conexa lyy / in CDC (with roadcom BCM57 rectSound® supp, down, mute butt) / headphone jac word / supervisotem 2.033 / hardwaterst / swipe sen	d connector r optimal wireles stomer upgradat /ireless 2200BG is 2915ABG, 82; customer acces nt® chipset modem) 51M (MAC/PHY ort / AD1981B A ons / internal m ik (3.5 mm; gree r password / sec re key storage / sor / integrated v	ss signal ole , Intel 82 533 chips sible ') / PCIe (C97 coc icrophon en) urity key TCG-cor with secu	x1 / PXE lec / e / hole mpliant	ThinkPad notebooks implement IBM ThinkVantage™ technologies and design; visit ibm.com /thinkvantage Universal 72 watt AC adapter Asset ID™.3⁴ (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant PXE 2.1-compliant IBM ImageUltra™ Services available International Warranty Service¹7 24 hour x 7 day¹⁵ toll-free warranty support during the warranty¹²
256MB PC2-420 512MB PC2-420 1GB PC2-4200 I IBM USB 2.0 Me IBM USB 2.0 Me IBM USB 2.0 Me IBM GB Microd 40GB HS Hard I 80GB HS Hard I IBM USB Portab Second HDD Ad Multi-Burner Plus Kensington® Mic	on DDR2 NP CL4 SOD 00 DDR2 NP CL4 SOD DDR2 NP CL4 SOD rtable Multi-Burner Drive emory Key 128MB emory Key 256MB emory Key 512MB rive® with PC Card Disk 9.5mm (5400 rpm) Disk 9.5mm (5400 rpm)	73P3840 73P3842 73P3844 22P9163 73P4512 22P9228 22P9230 09N4280 09N4273 05K9276 62P4554 73P3342 73P2582	ThinkPad T40/R ThinkPad T40/R ThinkPad Y0/R Ultrabay Slim Li ThinkPad 72W / IBM 11a/b/g Wir Intel PRO/Wirel IBM 11a/b/g Wir ThinkPad Port F ThinkPad Mini L ThinkPad Dock ThinkPad Carry IBM M400 Proje	50 Li-lon Battery 50 Li-lon Battery Polymer Battery le Battery Charc AC/DC Combo A eless Min PCI A ess 2200BG Min eless CardBus A teplicator II bock III ng Case - Leath ctor Collection	y 6-cell y 9-cell y 3-cell ger II Adapter Adptr II hi PCI Adapter	92P1102 08K8190 22P9040 22P9010 73P4301 73P2801 31P9101 74P6733 287810U 287710U 73P3600 0037A04 73P2698	ServicePac®. 22 1yr IOR 9x5 NBD 30L9188 ServicePac 2 yr IOR 9x5 NBD 30L9189 ServicePac 3 yr IOR 9x5 NBD 30L9195 ServicePac 4 yr IOR 9x5 NBD 30L9194 ServicePac 5 yr IOR 9x5 NBD 30L9196 ServicePac 2 yr P&L P/U Depot 30L9191 ServicePac 3 yr P&L P/U Depot 30L9192 ServicePac 5 yr P&L P/U Depot 69P9197

Type-model		· · · · · · · · · · · · · · · · · · ·	8 Optical wirele	Bay mode ess Blueto	em/ print tery Battery Limited A oth™ reader life¹º cells Warranty	date
T43 2687-D7U T43 2687-D8U T43 2687-D9U T43p 2687-D5U • Thee	se small and medium busine	3 14.1" SXGA+ 64MB 40H 3 14.1" SXGA+ 64MB 60H 3 15.0" SXGA+ 64MB 40H 3 15.0" SXGA+ 64MB 60H 15.0" UXGA 128MB 80H ss (SMB) models are part of	S Combo * Intel 11: S DVD±RW * Intel 11: S Combo * Intel 11: S DVD±RW * Intel 11: S DVD±RW * Intel 11: If the IBM US Think Exp	a/b/g Mode a/b/g Mode a/b/g Mode a/b/g Mod/l press Program	em No 3.6 hr 6-cell 3 ýrs Fel em No 3.6 hr 6-cell 3 yrs Fel em No 3.4 hr 6-cell 3 yrs Fel em No 3.4 hr 6-cell 3 yrs Fel Blue Finger 4.7 hr 9-cell 3 yrs Apr	05 05 05 05 05
				33 moders ne		
Positioning Processor L2 cache Memory	Intel® Pentium® M Process Intel SpeedStep™ technolog 2MB / on die (at processor 512MB or 1GB std / 2GB m	ance and portability; two-spir sor 750 (1.86GHz) or 760 (2 gy¹, Execute Disable Bit, and speed) / ECC lax² / PC2-4200 533MHz DD oin SO-DIMM sockets / std n	. 00GHz) with enhanced 533MHz system bus DR2 / non-parity / CL4 /	/ dual	SOFTWARE¹⁴ Nindows XP Professional Microsoft® Windows® XP Professional²⁰ (Service Pack 2) ⇒ Disk-to-Disk Recovery (in hidden protected area)	
Diskette drive Combo DVD±RW Ultrabay Slim Disk	Some: DVD-ROM/CD-RW / Some: DVD and CD burner One modular bay for interct 40GB8 HS (5400 rpm), 60G removable, upgradable / 9.5	al USB-based diskette drive / 24X/24X/24X/8X ²¹ speed / · / Multi-Burner Plus / removiangeable devices (right side is HS (5400 rpm), or 80GB mm high bay / supports 2nc ik Absorber / IBM Active P	able from Ultrabay Slin e) / 9.5mm high bay HS (5400 rpm) / 9.5mr I disk /	m high /	Preloaded IBM Rescue and Recovery™ Access IBM Access Connections Norton AntiVirus PC-Doctor™	
Display	Some: 14.1" (358.1mm) S3 Some: 15.0" (381.0mm) S3 FlexView display with Some: 15.0" (381.0mm) U3 FlexView display with	GA (1024x768) TFT color / / KGA+ (1400x1050) TFT color KGA+ (1400x1050) TFT color th wide viewing angle and his KGA (1600x1200) TFT color th wide viewing angle and his	or / Active Matrix / 150 or / Active Matrix / 200 gh density using IPS te r / Active Matrix / 200 r gh density using IPS te	nits nits / echnology nits / echnology	 ThinkPad Utilities Adobe Reader IBM Update Connector™.15 IBM RecordNOW and Drive Letter Access powered by Sonic products (combo, DVD±RW) InterVideo WinDVD (combo, 	
Graphics		ADEON® X300 / PCI Expres GL™ V3200 / PCI Express x		memory	DVD±RW models) InterVideo WinDVD Creator	
Keyboard TrackPoint® Touch pad ThinkLight™	TrackPoint® pointing device, UltraNav™ multi-pointing sy Illuminates the keyboard to	/ palm rest / pitch: 19mm; st "Press-to-Select," Internet S stem / touch pad below keyk improve visibility in low-light	Scroll Bar ¹³ , magnifying board / Tap Zones conditions	g glass /	(DVD±RW models) • IBM Simple Backup (DVD±RW) • IBM Fingerprint Software (fingerprint models) • IBM Client Security Software (for	
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	15.0" models (WxDxH): 13. with optical drive and battery Magnesium composite in th Lithium Ion 6- or 9-cell / inte 6-cell: up to 3.9 hr; 9-cell: u	2" x 10.0" x 1.0-1.2"; 311mm 0" x 10.6" x 1.2-1.4"; 329mm o: 14.1" models: up to 5.2 lb (e top cover, titanium-reinford elligent / supports unique 2n p to 5.9 hr; 9-cell plus Ultrab	n x 268mm x 31-36mm (2.3kg); 15": up to 6.3 ll ced CFRP in bottom co d battery in Ultrabay S (ay Slim battery: up to 7	b (2.8 kg) over lim 7.7 hr	security chip) Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant	
Architecture	82801FBM ICH6-M I/O Cor PCI bus, ethernet MAC, US PCI bus (Ricoh® R5C811 C (National Semiconductor® F hardware event log, parallel	ss Chipset / 82915PM Mem htroller Hub (SATA150, ATA-1 B, Low Pin Count [LPC] inte ardBus controller, Mini PCI, PC8394T Super I/O for secur I, infrared, [docking-based po	100 EIDE, PCI Exprèss rface, [Bluetooth], [fing external expansion) / L rity chip (TPM), Asset I orts (serial, diskette])	s x1, - gerprint]) / _PC bus	_icense (CD not included) Lotus® SmartSuite® Millennium a Lotus Notes® Stand-alone Client	
PC Card Std slot ExpressCard slot Ports	One Type I or Type II slot / C One ExpressCard/34 or Exp Two USB (Version 2.0) / par RJ-11 (modem) / RJ-45 (eth	CardBus 32-bit / integrated d pressCard/54 / PCI Express rallel / external DB-15 monito pernet) / no keyboard or mou	x1 or USB 2.0 / integra or / infrared (4Mbps) /	ated door	ThinkPad notebooks implement IB ThinkVantage™ technologies and design; visit ibm.com /thinkvantage	
Video out Wireless antenna Mini PCI Intel 11a/b/g³² CDC Modem Bluetooth™ Ethernet Audio support	S-video out port (TV out) / o UltraConnect™ Antenna bui One Mini PCI type III slot (C 11a/b/g wireless⁴, Mini PCI, One Communications Daug 56K° V.90 (V.92-designed²º) Some: Bluetooth wireless t Gigabit ethernet on system Soft audio / ICH AC97 cont stereo speakers / 1 watt / vc microphone input jack (3.5	one 4-pin industry standard of the litting the display cover for of communications Bay) / custo Intel PRO/Wireless 2915AB where Card (CDC) socket / cumodem in CDC / Conexant echnology / in CDC (with moderal / Broadcom BCM5751 roller / DirectSound® support of little processed in the little proc	connector ptimal wireless signal imer upgradable G, 82533 chipset stomer accessible chipset odem) M (MAC/PHY) / PCIe: t / AD1981B AC97 cod is / internal microphonics / (3.5 mm; green)	reception F X1 / PXE lec / e /	Universal 72 watt AC adapter Asset ID™34 (system-specific info in chip accessed over network) PC 2001-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant PXE 2.1-compliant PXE 2.1-compliant PXE 4.1-compliant PXE 6.1-compliant PXE 6.1	ole
	Power-on password / hard of IBM Embedded Security Str Some: Fingerprint reader	disk password / supervisor p. Subsystem 2.033 / hardware on palm rest / swipe senso	assword / security keyl key storage / TCG-cor r / integrated with secu	npliant rity chip	ServicePac ^{®, 22} 2yr IOR 9x5 NBD 30L91 ServicePac 3yr IOR 9x5 NBD 30L91	
	² 3 years /1 yr battery - EasyS 00 DDR2 NP CL4 SOD 7		D Li-Ion Battery 6-cell		ServicePac 4yr IOR 9x5 NBD 69P91	
512MB PC2-420 1GB PC2-4200 I IBM USB 2.0 Po	00 DDR2 NP CL4 SOD 7 DDR2 NP CL4 SOD 7 rtable Multi-Burner Drive 2	73P3842 ThinkPad T40/R50 73P3844 Ultrabay Slim Li-P 12P9163 ThinkPad Multiple	Li-Ion Battery 9-cell olymer Battery 3-cell Battery Charger II	92P1102 3 08K8190 22P9040 3	ServicePac 5yr IOR 9x5 NBD 69P92 ServicePac 4yr P&L P/U Depot	200
IBM 4GB Microd 40GB HS Hard [rive® with PC Card C Disk 9.5mm (5400 rpm) C	9N4280 IBM 11a/b/g Wirel	C/DC Combo Adapter ess Mini PCI Adptr II ess CardBus Adapter	73P4301 3 31P9101	69P91 ServicePac 5yr P&L P/U Depot 69P92 Post-warranty annual maintenance	201
IBM USB Portab Second HDD Ad	le Diskette Drive (apter for Ultrabay Slim 6	05K9276 ThinkPad Mini Do 02P4554 ThinkPad Dock II		287810U a 287710U	agreements at ibm.com/services/its/us/source maspspleu.pdf	

Type-model Proce	Speed ssor GHz Mem	ory Screen	Disk GB ⁸ C	Optical	Mini PCI Comm Bay wireless	CDC modem	Ethernet on S planar	Securi chip	Preload or Entry (È) date
 ≈ 2684-22U Celeror ≈ 2684-G2U Celeror ≈ 2684-G8U Celeror ≈ 2684-CAU Pentiun ≈ 2684-B2U Pentiun ≈ 2684-Q2U Pentiun ≈ 2684-QQU Pentiun ≈ 2684-QBU Pentiun ≈ 2684-QBU Pentiun 	1.8 128N 1.8 128N 1.8 128N 1.7 256N 1.4-M 1.8 128N 1.4-M 2.2 128N 1.4-M 2.2 256N	MB 14.1" XGA	20GB C 20GB C 20GB C 20GB C 20GB C 30GB C	DD DD Combo	None None None None None None 11b Wi-Fi ³²	Modem Modem Modem Modem Modem Modem Modem Modem	10/100 10/100 10/100 10/100 10/100 10/100 10/100 10/100	No No No No No No No	Windows XP Home E May 2003 Windows XP Pro No May 2003 Windows XP Pro No Mar 2003 Windows XP Home No Mar 2003 Windows XP Home E May 2003 Windows XP Pro No May 2003 Windows XP Pro No May 2003 Windows XP Pro No May 2003
Positioning Processor L2 cache Memory Diskette drive	Mainstream performance in Mobile Intel® Cele Mobile Intel Pent enhanced Intel Sp. Celeron: 256KB; /128 or 256MB std two 200-pin SO-D. None standard / u	eron 1.7 or 1.8Gl ium4 Processor peedStep™ techn Pentium 4-M: 512 / 1GB max ⁷ / PC IMM sockets / st se optional USB	Hz with 400 -M 1.8 or 2 cology ¹ and 2KB; All: or 2100 2661 d memory -based disl	OMHz fro 2.2GHz v 4 400MH n die (at p MHz DD in one s kette dri	ontside bus of with Iz frontside b processor sp PR1 / non-par socket / one s ve	us eed) / EC0 ity / CL2.5	5/	-	SOFTWARE ¹⁴ Windows XP Home models Microsoft® Windows® XP Home Edition ²⁰ Disk-to-Disk Recovery (in hidden protected area) Windows XP Pro models
CD Combo Ultrabay™2000 Disk	Some: CD-ROM Some: Combo / 2 None 20, 30, or 40GB ⁸ , 4 9.5mm high bay	24X/10X/24X ['] /8X 4200 rpm, 9.5mm	²¹ speed / fi	ixed, no .T. / rem	t removable novable and u			_	Microsoft Windows XP Professional ²⁰ ⇒ Disk-to-Disk Recovery (in hidden protected area) Preloaded
Graphics Graphics external Keyboard TrackPoint® Touch pad ThinkLight™	Some: 13.3" (33. Some: All: 14.1" (35. All: Easy-ope ATI® RADEON™ External monitors 87-key / Access If TrackPoint point in soft dome TrackP No UltraNav™ mu None	3.1mm) XGA (10 n cover to unlatel IGP 330M / integ upport via analog BM button / palm g device, "Press oint cap / ships v	24x768) TI n and open rated in no g DB-15 co rest / pitch -to-Select, vith classic	FT color with one orthbridgennector h: 19mm "Interne	r / Active Mat e hand (two la ge / 16MB DD / up to 1600x n; stroke: 2.7 et Scroll Bar ¹	rix / 150 ni atches) PR1 (DDR 1200 at 85 mm (std-s 3, magnify	-SDRAM) Hz/DDC ize keys) ing glass	2B /	Access IBM Adobe Reader IBM Rapid Restore™ PC IBM RecordNOW and DLA by Veritas® (combo models) InterVideo WinDVD (combo models Norton® AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities IBM Update Connector™.15
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	12.3 x 10.0 x 1.53' with optical drive a Color: Black; All: Lithium Ion 6-cell / Celeron models: 2	and battery: <i>G2U</i> 22U/ Acrylonitrile-Buta intelligent 2.1 hrs; <i>Pentium</i>	//G8U/B2U/ /CAU/QQU/ adiene-Sty 4-M model	/ <i>Q2U:</i> 5. // <i>QBU:</i> 6. rene (Al /s:2.6 hr	0 lb (2.72kg) BS) plastic			1	Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Port replicator Docking station PC Card Std slots Ports	ATI RADEON IGF graphics controlle Low Pin Count [LF PCI1510 CardBus No port replicator No docking station One Type II or one Two USB (Version	r,PCI bus) / ALi® PC] interface, US s controller) / LPC support n support e Type III / CardE n 1.1) / parallel / /	M1535+ s BB, parallel C bus 33Ml Bus 32-bit / external m	southbrid , audio) Hz (PC8 / PCMC onitor ([dge (ATA-100 / PCI 2.1, 32 37392 Super IA 2.1 / integ DB-15) / RJ-1	© EIDE, -bit 33MH I/O for par	z (TI® rallel)	C C	ThinkPad notebooks implement IBM ThinkVantage™ technologies and design; visit ibm.com/thinkvantage Universal 72 watt AC adapter PC 2001 and PXE 2.0-compliant ACPI 1.0b and 2.0-compliant
Video out IEEE 1394 Wireless antenna Mini PCI 11b Wi-Fi ³² CDC Modem Ethernet Audio support	RJ-45 (ethernet) / None None None Some (non-wireles Some (wireless m Some (wireless m One Communicati 56K ⁶ V.90 (V.92-d 10/100 ethernet of Soft audio / ICH A mono speakers / microphone input Power-on passwo None	ss models): None odel QBU): Ultra ss models): No No odel QBU): 11b' ons Daughter Ca esigned ²⁹) model n planar / Broadc C97 controller / Il I watt / volume u jack (3.5 mm; m	e / can upg Connect TM lini PCI solo Wi-Fi ³² wire ard (CDC) s m in CDC / om® BCM5 DirectSour p, down, m	rade to Antenna t (Comreless ⁴ , Mosocket (Language 1990) (Phode supported by the bottless of the control of th	wireless via of a built into the a built into the finit PCI, Interused by mode chipset HY/MAC) / Poort / AD198 tons / internajack (3.5 mm;	display co Bay) sil® Prism em) / not a (E / Wake B AC97 co I mic /	2.5 chips ccessible on LAN® codec /	et sack \$	CIM and DMI 2.0-compliant BM Rapid Restore PC available to protect software image and data nternational Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free warranty support during the warranty ¹² via 800-IBM-SERV (426-7378) ServicePac ^{®, 22} 1yr IOR 9x5 NBD 30L9188 ServicePac 2 yr IOR 9x5 NBD 30L9189 ServicePac 3 yr IOR 9x5 NBD 30L9189 ServicePac 4 yr IOR 9x5 NBD
Security chip Limited warranty ¹² Service options	1 year - EasyServ Service upgrades coverage from date	22 provide up to f	ive years o	of onsite	or depot rep	air service)	-	30L9194 ServicePac 5 yr IOR 9x5 NBD 30L9196 ServicePac 2 yr P&L P/U Depot
128 MB PC2100 D 256 MB PC2100 D 512 MB PC2100 D 40GB HS Hard Dis IBM 4GB Microdri IBM USB Portable IBM USB Serial Pa IBM USB 2.0 Com IBM USB 2.0 Mem IBM USB 2.0 Mem	DR-SDRAM CL2.5 DR-SDRAM CL2.5 k 9.5mm (5400 rpr	5 SOD 10K0030 5 SOD 10K0032 08K9816 09N4280 05K9276 22P5298 73P4515 73P4512 22P9228 22P9230	Multiple ThinkPa ThinkPa IBM Enh IBM USi ThinkPa IBM 11a IBM Opti IBM Opti Nylon C: Leather ThinkPa	Multiple ad 72W Ad 72W Ad 72W Ad 72W Ad Monito ad Monito ad 3-Buical 3-Buarrying Carrying ad Carrying		rger II oo Adaptel and Mous ith UltraNi 1 us Adapte //neel Mous int® Mouse	se 73P406 av 31P949 22P526 ar 31P910 se 31P746 31P740 10K020 73P359	8 10 10 10 10 10 10 10 1	30L9191 ServicePac 3 yr P&L P/U Depot 30L9192 ServicePac 4 yr P&L P/U Depot 69P9195 ServicePac 5 yr P&L P/U Depot 69P9197 Other ServicePac options at ibm.com/services/its/us/source/ wamomxeu.pdf Post-warranty annual maintenance agreements at ibm.com/services/its/us/source/ maspspleu.pdf

See footnotes for important warranty information

US model announced May 21, 2003; previous models on March 12, 2003

US models withdrawn effective July 2003 or January 2004 or October 2004

	Type-model Proces	Speed ssor GHz Memory Screer	Graphics Disk memory GB ⁸ Optica	Mini PCI Comm Bay I wireless	Etherne CDC on modem planar	t IEEE Security Workhorse (W) 1394 Chip or Global (G) Avail port Preload or Entry (E) date
× × ×		1.6 128MB 14.1" XG 1.8 128MB 14.1" XG 1.6 128MB 15.0" XG 1.8 128MB 14.1" XG 1.8 128MB 15.0" XG	A 16MB 20GB CD A 16MB 20GB DVD A 16MB 20GB CD A 16MB 20GB CD	Open; wireless upg	Modem 10/100 Modem 10/100 Modem 10/100 Modem 10/100 Modem 10/100 Modem 10/100 Modem 10/100	1394 No XP Home E Jan 2003 1394 No XP Home No Jan 2003 1394 No XP Home No Jan 2003 1394 No XP Home E May 2003 1394 No XP Home No May 2003 1394 No XP Home No Nov 2003
	Positioning Processor	Mainstream performance a Mobile Intel® Celeron 1.6,				SOFTWARE ¹⁴
	L2 cache Memory	Mobile Intel Pentium 4 Pro enhanced Intel SpeedStep Celeron: 256KB; Pentium 128MB std / 1GB max ⁷ / Ptwo 200-pin SO-DIMM soc	ocessor-M 1.9 or 2.2Gh ™ technology¹ and 400 4-M: 512KB; All: on die (C2100 266MHz DDR1 (Iz with [*] MHz system bus at processor speed) / E (DDR-SDRAM) / non-p	arity / CL2.5 /	Windows XP Home models - Microsoft® Windows® XP Home Edition²0 ◆ Disk-to-Disk Recovery (in hidden protected area)
	Diskette drive CD DVD Ultrabay 2000 Disk	None standard / use option Some: CD-ROM / 24X-10 Some: DVD-ROM / 8X-3. One modular bay for interce 20GB ⁸ , 4200 rpm, 9.5mm h 9.5mm h bay / supports	X ⁹ speed ∫bootable / re 3X ⁹ speed / bootable / re hangeable devices / Ulf igh, S.M.A.R.T. / remov 2nd disk with optional H	movable from Ultrabay emovable from Ultraba rabay Plus-compatible rable and upgradable / DD Adapter in Ultrabay	/ 2000 by 2000 c/ 12.7mm high / 2000	Preloaded • Access IBM - Access Connections - Access Help - Access Support • Adobe Reader
	Display	, , , , , , , , , , , , , , , , , , ,	GA (1024x768) TFT col A (1024x768) TFT color unlatch and open with c	or / Active Matrix / 150 · / Active Matrix / 150 ni one hand (two latches)	nits /	 IBM Rapid Restore™ PC InterVideo WinDVD (DVD models) Norton AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities
	Graphics Graphics external	ATI® Mobility™ RADEON External monitor support vi			85Hz/DDC2B	 IBM Update Connector™,15
	Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM butto TrackPoint® pointing devic UltraNav™ multi-pointing s Illuminates the keyboard to	e, "Press-to-Select," Int ystem / touch pad belov	ernet Scroll Bar ¹³ , mag w keyboard / Tap Zone	nifying glass	Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant
	Dimensions ³ Weight ²	13.3/14.1" models: 12.3" x with optical drive and batte				License (CD not included) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
	Case material Battery - type Battery - life ¹⁰	Color: Black; All: Acrylonit Lithium Ion 8-cell / intellige 13.3/14.1"models: 3.8 to 4	15U: 6.2 lb; 7CU: 6.6 rile-Butadiene-Styrene nt / supports unique 2nd	i lb; <i>35U/5FU:</i> 6.7 lb (ABS) plastic I battery in Ultrabay 200	0	Lotus Notes* Startu-alone Cilent
	Architecture Port Replicator PC Card Std slots Ports	Intel 845MP chipset / 8284 82801DBM ICH4-M I/O Co Low Pin Count (LPC) inter PC11510 CardBus controll LPC bus 33MHz (security Optional Port Replicator at One Type I, one Type II, or Two USB (Version 2.0) / p. RJ-11 (modem) / RJ-45 (e	Introller Hub (ATA-100 face, USB, Firmware H er, TSB43AB21 1394 (sc chip; PC87392 Super I/ nd Mini Dock (no ThinkF one Type III / CardBus arallel / external monito	EIDE, PCI bus, etherne ub) / PCI bus 2.2 32-bit, me), Mini PCI, external O for diskette, parallel, Pad Dock support) 32-bit / PCMCIA 2.1 / i r (DB-15) / infrared (4N	a33MHz (TI® expansion) / infrared)	ThinkPad notebooks implement IBM ThinkVantage™ technologies and design; visit ibm.com/thinkvantage Universal 72 watt AC adapter Asset ID (system-specific info in chip accessed over network)
	Video out IEEE 1394 Wireless antenna Mini PCI Wireless upg ³⁶ CDC Modem Ethernet Audio support	S-video out port (TV out) / IEEE 1394 (FireWire) port UltraConnect™ Antenna bu One Mini PCI type III slot (All: Wireless upgradate) One Communications Dau	one 4-pin industry stand / 4-pin connector ilt into the display cover Communications Bay) / e with wireless Mini PCI ghter Card (CDC) socke signed ²⁹) modem in CD- poard / Intel 82562EZ ch troller / DirectSound® si rolume up, down, mute mm) / headphone jack	dard connector for optimal wireless sig customer upgradable options t (used by modem) / nc C / Agere® chipset ipset (physical layer) upport / AD1891A AC9 buttons / internal mic / (3.5 mm) / no line in ja	ot accessible 7 codec /	PC 2001 and PXE 2.0-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant ENERGY STAR®-compliant IBM Rapid Restore PC available to protect software image and data International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free warranty support during the warranty ¹² via 800-IBM-SERV (426-7378) ServicePac®. ²² 1yr IOR 9x5 NBD 30L9188
	Limited warranty ¹²	1 year - EasyServ ^{TM,19} ons	te pickup and delivery /	service upgrades ²² ava	ailable	ServicePac 2 yr IOR 9x5 NBD 30L9189
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Positioning Processor	Mainstream performance and Intel® Pentium® M Processo				SOFTWARE ¹⁴
L2 cache Memory	enhanced Intel SpeedStep™ 1MB / on die (at processor s 128 or 256MB std / 2GB ma two 200-pin SO-DIMM sock	technology ¹ and 400M beed) / ECC x ⁷ / PC2100 266MHz D ets / std memory in one	MHz system bus DR1 / non-parity / CL socket / one socket a	available	Windows XP Pro models - Microsoft® Windows® XP Professional20 + Disk-to-Disk Recovery (in hidden protected area)
Diskette drive CD DVD Combo Ultrabay 2000 Disk	None standard / use optiona Some: CD-ROM / 24X-10X Some: DVD-ROM / 8X-3.33 Some: DVD-ROM/CD-RW One modular bay for interchi 20GB ⁸ , 40GB, or 60GB, 420 9.5mm high bay / supports 2i	⁹ speed / bootable / ren (⁹ speed / bootable / re / 24X/10X/24X/8X ²¹ sp angeable devices / Ultr D rpm, 9.5mm / remova	novable from Ultrabay movable from Ultraba eed / removable from abay Plus -compatible ble and upgradable /	y 2000 y 2000 Ultrabay 2000 /12.7 mm high	Windows XP Home models - Microsoft Windows XP Home Editon ²⁰ ⇒ Disk-to-Disk Recovery (in hidden protected area)
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Graphics Graphics external Keyboard TrackPoint® Touch pad	Some: ATI® Mobility™ RAD Some: ATI Mobility RADEO External monitor support via 87-key / Access IBM button TrackPoint® pointing device, UltraNav™ multi-pointing sys	DN 7500 / AGP 4X / 32 analog DB-15 connecto / palm rest / pitch: 19m "Press-to-Select," Inte stem / touch pad below	MB DDR1 (DDR-SDR or / up to 1600x1200 at m; stroke: 2.7mm (sto rnet Scroll Bar ¹³ , mag keyboard / Tap Zone	AM) 85Hz/DDC2B d-size keys) nifying glass	 Access Connections Adobe Reader IBM Rapid Restore™ PC IBM RecordNOW and DLA by Veritas (combo models) InterVideo WinDVD (Combo, DVD) Norton AntiVirus (OEM edition)
ThinkLight™ Dimensions³ Weight² Case material Battery - type Battery - life¹⁰	Illuminates the keyboard to i 14.1" models: 12.3" x 10.0" x with optical drive and battery Color: Black; All: Acrylonitril Lithium Ion 8-cell / intelligent Model GAU: 5.0 hr; Others:	1.53"; 15.0" models: 13: 14.1" models: 6.0 to 6 e-Butadiene-Styrene (t / supports unique 2nd	3.0" x 10.5" x 1.59" .7 lb; <i>15.0":</i> 6.6 to 6.7 ABS) plastic	()	 PC-Doctor™ ThinkPad Utilities IBM Update Connector™.15 Downloadable IBM Director Agent Software Delivery Assistant
PC Card Std slots Ports	Intel 855PM chipset / 82855l 82801DBM ICH4-M I/O Cont Low Pin Count (LPC) interfar PCI1510 CardBus controller, LPC bus 33MHz (security ch One Type I, one Type II, or o Two USB (Version 2.0) / par RJ-11 (modem) / RJ-45 (eth	roller Hub (ATA-100 EI ze, USB, Firmware Hub TSB43AB21 1394 (sor ip; PC87392 Super I/O ne Type III / CardBus 3 allel / external monitor	DE, PCI bus, ethernet) / PCI bus 2.2 32-bit, me), Mini PCI, externa for diskette, parallel, ir 2-bit / PCMCIA 2.1 / in (DB-15) / infrared (4N	33MHz (TI® l expansion) / nfrared) tegrated door	System Migration Assistant Client Security Software (for security chip) License (CD not included) Lotus SmartSuite Millennium and Lotus Notes Stand-alone Client Universal 72 watt AC adapter
Video out IEEE 1394 Wireless antenna Mini PCI Wireless upg ³⁶ 11b Wi-Fi ³² 11a/b Wi-Fi ²⁷ CDC Modem	S-video out port (TV out) / or IEEE 1394 (FireWire) port / 4 UltraConnect™ Antenna built One Mini PCI type III slot (C Some: Wireless upgradable Some: 11b Wi-Fi ³² wireless ⁴ 802.11b, Intel 82531 (Some: 11a/b Wi-Fi ²⁷ wireless One Communications Daugh 56K ⁶ V.90 (V.92-designed ²⁹)	ne 4-pin industry stand 4-pin connector into the display cover for mmunications Bay) / or with wireless Mini PCI or Mini PCI, Intel PRO/Wichipset sof, Mini PCI, Atheros A ther Card (CDC) socket modem in CDC / Agere	ard connector or optimal wireless sig customer upgradable options ireless 2100 Network (AR5001X chipset (used by modem) / no	Connection	Asset ID ^{TM,34} (system-specific info in chip accessed over network) PC 2001 and PXE 2.0-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant IBM Rapid Restore PC available to protect software image and data International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free warranty support during the warranty ¹²
Bluetooth™ Ethernet	Some: Bluetooth wireless te 10/100 ethernet on motherbo	chnology / in CDC (with pard / Intel 82562EZ chi	modem) pset (physical layer) / l	PXE	ServicePac®, 22 1yr IOR 9x5 NBD 30L9188
Audio support	Soft audio / ICH AC97 contrestereo speakers / 1 watt / vo	lume up, down, mute b	outtons / internal mic /		ServicePac 3 yr IOR 9x5 NBD 30L9195
Security Security chip	microphone input jack (3.5 n Power-on password / hard of IBM Embedded Security S authentication / local file end	lisk password / supervi ubsystem 2.0 ³³ / hardv	sor password / securi vare key storage / mu	ty keyhole Iti-factor	ServicePac 3yr P&L P/U Depot 30L9192 ServicePac 5yr P&L P/U Depot 69P9197
Limited warranty ¹²	1 year - EasyServ™,19 onsite	e pickup and delivery / s	service upgrades22 ava	ilable	Other ServicePac options at ibm.com/services/its/us/source/
256 MB PC2100 D 512 MB PC2100 D 1GB PC2100 DDF CD-RW/DVD Con Second HDD Ada	nbo IV Ultrabay 2000 22l pter for Ultrabay 2000 08l able Diskette Drive 08l Diskette Drive 05l	(0030 40GB HS Hard (0032 ThinkPad R32 (0034 Ultrabay 2000 P6991 ThinkPad Mult (6068 IBM 11a/b/g W (9603 IBM 11a/b/g W (9276 ThinkPad Carr P4515 IBM M400 Proj	iple Battery Charger II /ireless CardBus Adap /ireless Mini PCI Adap ·ying Case - Expander ector	02K7052 02K6646 02P9040 0ter 31P9101 0ter 31P9701	wamomxeu.pdf ThinkPad Port Replicator II 74P6733 ThinkPad Mini Dock 287810U ThinkPad 72W AC Adapter 02K6699 ThinkPad 72W AC/DC Combo Adapter 22P9010 Other options at ibm.com/pc/us/ accessories

 ^{*} Powered by Intel Centrino™ mobile technology

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Type-model Proce	Speed ssor GHz Memory Screen	Graphics Disk memory GB [®] Optica	Mini PCI Comm Bay I wireless	Etherne CDC on modem planar	1394 Chip or Glo	orse (W) bbal (G) Avail odel date
 ≈ 2723-26U ≈ 2723-27U ≈ 2723-2SU ≈ 2723-3LU ≈ 2723-3EU ≈ 2723-5TU ≈ 2723-6LU ≈ 2723-BSU ≈ 2723-BSU ≈ 2723-BSU ≈ 2723-PSU » 2723-PSU	m®M 1.3 256MB 14.1" XGA m M 1.3 256MB 15.0" XGA m M 1.4 256MB 15.0" XGA m M 1.4 256MB 15.0" XGA m M 1.4 256MB 15.0" XGA m M 1.4 256MB 15.0" XGA m M 1.4 256MB 15.0" XGA m M 1.4 256MB 15.0" XGA m M 1.4 256MB 15.0" XGA	16MB 20G DVD 16MB 20G DVD 16MB 20G DVD 32MB 40G Combo 32MB 40G DVD 32MB 40G DVD A+32MB 40G DVD 32MB 40G DVD 32MB 40G DVD 32MB 40G DVD 32MB 40G DVD 32MB 40G DVD	Cisco 802.11b o 11a/bWi-Fi Cisco 802.11b Open; wireless upg Open; wireless upg *Intel 11b Wi-Fi	Modem 10/100 Modem 10/100 Modem 10/100 Modem 10/100 Modem 10/100 Modem 10/100 Modem 10/100 Modem 10/100 Modem 10/100 Modem 10/100	Yes XP Pro W (1394 Yes XP	G Mar 2003 Mar 2003 Mar 2003 Apr 2003 Apr 2003 Apr 2003 Apr 2003 G Apr 2003 Apr 2003
Positioning Processor	Mainstream performance an Intel® Pentium® M Process				SOFTWARE	14
L2 cache Memory Diskette drive DVD Combo Ultrabay 2000 Disk	enhanced Intel SpeedStep ^T 1MB / on die (at processor s 256MB std / 2GB max ⁷ / PC two 200-pin SO-DIMM sock None standard / use options Some: DVD-ROM/8X-3.3 Some: DVD-ROM/CD-RW One modular bay for interch 20GB ⁸ or 40GB, 4200 rpm, s	M technology¹ and 400M peed) / ECC 2100 266MHz DDR1 (ets / std memory in one al Ultrabay™-based or l X³ speed / bootable / re / 24X/10X/24X/8X²¹ sp angeable devices / Ult	MHz frontside bus DDR-SDRAM) / non-pa e socket / one socket a USB-based diskette drivemovable from Ultrabay seed / removable from U rabay Plus-compatible	vailable ve / 2000 Jltrabay 2000 / 12.7 mm high	Windows XP Professiona - Microsoft® Windows® XF Professional²0 ⇒ Disk-to-Disk Recovery (in hidden protected area Preloaded • Access IBM - Access Connections • Adobe Reader	0
Display	supports 2nd disk with option Some: 14.1" (358.1mm) XG Some: 15.0" (381.0mm) XG Some: 15.0" (381.0mm) SX	nal HDD Ådapter in Ultr A (1024x768) TFT colo A (1024x768) TFT colo	abay 2000 or / Active Matrix / 150 n or / Active Matrix / 150 n color / Active Matrix / 1	its its	IBM Rapid Restore™ PC IBM RecordNOW and D Veritas (combo models) InterVideo WinDVD (Coi Norton AntiVirus (OEM of the combo models)	DLA by mbo, DVD)
Graphics external	Some: ATI® Mobility™ RADEO Some: ATI Mobility RADEO External monitor support via	ON 7500 / AGP 4X / 32	MB DDR1`(DDR-SDR/	ΑM)	PC-Doctor™ ThinkPad Utilities IBM Update Connector™	и,15
Keyboard TrackPoint [®] Touch pad ThinkLight™	87-key / Access IBM button TrackPoint® pointing device UltraNav™ multi-pointing sy Illuminates the keyboard to	, "Press-to-Select," Into stem / touch pad belov	ernet Scroll Bar ¹³ , magr v keyboard / Tap Zones	nifying glass	Downloadable IBM Director Agent Software Delivery Assist System Migration Assist Client Security Software	ant
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models: 12.3" x 10.0") with optical drive and battery Color: Black; All: Acrylonitri Lithium Ion 8-cell / intelliger Model BAU: 5.0 hr; Others:	<i>r:14.1" models:</i> 6.0 to 6 le-Butadiene-Styrene it / supports unique 2nd	6.1 lb; <i>15.0":</i> 6.6 to 6.7 ll (ABS) plastic	`	security chip) License (CD not included) Lotus® SmartSuite® Mille Lotus Notes® Stand-alor	ennium and
Architecture PC Card Std slots Ports	Intel 855PM chipset / 82855 82801DBM ICH4-M I/O Con Low Pin Count (LPC) interfar PCI1510 CardBus controller LPC bus 33MHz (security ch One Type I, one Type II, or Two USB (Version 2.0) / pa RJ-11 (modem) / RJ-45 (eth	troller Hub (ATA-100 E ce, USB, Firmware Hub , TSB43AB21 1394 (So iip; PC87392 Super I/O one Type III / CardBus rallel / external monitor	IDE, PCI bus, ethernet No) / PCI bus 2.2 32-bit, 3 me), Mini PCI, external for diskette, parallel, inf 32-bit / PCMCIA 2.1 / inf (DB-15) / infrared (4MI	3MHz (TI® expansion) / frared) ntegrated door	Universal 72 watt AC adal Asset ID™,34 (system-sper chip accessed over netron PC 2001 and PXE 2.0-cor ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant IBM ImageUltra™ Service	cific info in work) mpliant ant nt s available
Video out IEEE 1394 Wireless antenna Mini PCI Wireless upg ³⁶	S-video out port (TV out) / o Some: IEEE 1394 (FireWire UltraConnect™ Antenna buil One Mini PCI type III slot (C Some: Wireless upgradable	e) port / 4-pin connecto t into the display cover ommunications Bay) / with wireless Mini PCI	r for optimal wireless sign customer upgradable options	·	IBM Rapid Restore PC av protect software image International Warranty Se 24 hour x 7 day ¹⁸ toll-free support during the warra	and data rvice ¹⁷ warranty
11b Wi-Fi ³² Cisco 802.11b ³² 11a/b Wi-Fi ²⁷	Some: 11b Wi-Fi ³² wireless Some: 802.11b wireless Nome: 11a/b Wi-Fi ²⁷ wireless	1ini PCI, Cisco® Aironet	® Wireless 802.11b	31 chipset	ServicePac®, 22 2 yr IOR 9	30L9190
CDC Modem	One Communications Daug 56K ⁶ V.90 (V.92-designed ²⁹)	hter Card (CDC) socke	t (used by modem) / not	accessible	ServicePac 3 yr IOR 9x5 I	30L9197
Bluetooth Ethernet	None 10/100 ethernet on motherbo	ŭ	'	XE	ServicePac 5 yr IOR 9x5 I ServicePac 5 yr P&L P/U	69P9200
Audio support Security Security chip Limited warranty ¹²	Soft audio / ICH AC97 contr stereo speakers / 1 watt / vomicrophone input jack (3.5 in Power-on password / hard of IBM Embedded Security Sauthentication / local file end 3 years/1 year battery - Ea	oller / DirectSound® su plume up, down, mute l mm) / headphone jack disk password / superv subsystem 2.0 ³³ / hard cryption / enhances VF	pport"/ AD1891A AC97 outtons / internal mic / (3.5 mm) / no line in jac isor password / security ware key storage / mult N security 16 / TCG-com	codec / k y keyhole i-factor	Other ServicePac options ibm.com/services/its/u wamomxeu.pdf Post-warranty annual mai agreements at ibm.com/services/its/u	69P9201 at us/source/ ntenance
256 MB PC2100 E 512 MB PC2100 D 1GB PC2100 DDI CD-RW/DVD Cor Second HDD Ada ThinkPad Remov IBM USB Portable	DDR-SDRAM CL2.5 SOD 10 DDR-SDRAM CL2.5 SOD 10 DDR-SDRAM CL2.5 SOD 10 DDR-SDRAM CL2.5 SOD 10 R-SDRAM CL2.5 SOD 10 nbo IV Ultrabay 2000 22 pter for Ultrabay 2000 08 able Diskette Drive 05 Diskette Drive 05 Fravel Wheel Mouse 37	0K0028	ard Disk 9.5mm (5400 r Smart Card Reader/Wr 32/R40 Series Li-lon Ba 30 Li-lon battery ultiple Battery Charger I Wireless CardBus Ada Wireless Mini PCI Ada ojector	iter 31P8901 ittery 02K7052 02K6646 II 22P9040 pter 31P9101 pter 31P9701 0038A04 0039A04	maspspleu.pdf ThinkPad Port Replicator ThinkPad Mini Dock ThinkPad 72W AC Adapte ThinkPad 72W AC/DC Co Adapter IBM USB 2.0 Portable CD Drive Other options at ibm.com accessories	287810U er 02K6699 ombo 22P9010 0-RW 22P5297

				Mini PCI		Ethernet	IEEE :	Secu- Limited Workhorse (W)		
	Speed cessor GHz Memory	Screen Disk GB ⁸	Optical C	omm Bay wireless	CDC modem	on	1394			
1834-C4U Pentiun	n M 1.3 128MB 1 n M 1.3 256MB 1	4.1" XGA 30GE	B CD None Combo None Combo None CD *Intel CD *Intel	e	Modem	10/100 10/100 10/100 10/100 10/100	No No No No No No	No XP Pro 1 yr Apr 2004 No XP Home 1 yr E July2004		
Positioning Processor	Mainstream performant Intel® Celeron M Proce	essor 1.3GHz wi	th 400MHz syste	em bus or	E (4 ECL	l= with	v	SOFTWARE ¹⁴ Windows XP Home models		
L2 cache Memory	Intel Pentium M Proce 2MB L2 cache) with en Celeron M: 512KB; Pe 128MB or 256MB std / speed to 266MHz) / no two 200-pin SO-DIMM	hanced Intel Spe ntium M 705: 1 M 2GB max ⁷ / PC2 n-parity / CL2.5 /	eedStep™ techn B; <i>Pentium M 7</i> 2 700 333MHz D	nology ¹ and 4 715: 2 MB ; <i>Ai</i> DR 1 (memo	00MHz s II: ECC ry contro	ystem bu ller limits	s - <	Microsoft® Windows® XP Home Edition²0 > Disk-to-Disk Recovery (in hidden protected area) Vindows XP Pro models		
Disk	None standard / use op Some: CD-ROM / 24X Some: DVD-ROM/CD None / no support for re 20GB ⁸ or 30GB (4200 r 9.5mm high bay / IBM h		n - m	- Microsoft Windows XP						
Display	Some: 14.1 " (358.1mr Some: 15.0 " (381.0mr All: one latch to unl		•	Access Connections IBM Rescue and Recovery™						
Graphics Graphics external Keyboard TrackPoint® Touch pad ThinkLight™	Integrated Intel Extre uses main memory (up External monitor suppo 87-key / Access IBM b TrackPoint® pointing de No UltraNav™ multi-po Illuminates the keyboa	B •	IBM RecordNOW and Drive Letter Access powered by Sonic product: (combo models) InterVideo WinDVD (combo models Norton AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities Adobe Reader							
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models (WxDxH) 15.0" models (WxDxH) with optical drive and be Color: black; All: Acry Lithium Ion 6-cell / intel Celeron M models: up Optional High Capacity	•	IBM Update Connector™.¹⁵ Downloadable (all) IBM Director Agent Software Delivery Assistant System Migration Assistant License (CD not included) Lotus® SmartSuite® Millennium and							
Architecture Port replicator Docking station PC Card Std slots Ports		Controller Hub (terface, USB) / Hz (TI® PCI1510 392 Super I/O fo ort oort I, or one Type III / parallel / exter	ÁTA-100 EIDE, CardBus contro r parallel) / CardBus 32-b nal monitor (DB	PČI bus, ethe oller, Mini PC oit / PCMCIA -15) /	ernet MA(I) / 2.1 / inte	grated do	d oor L	Lotus Notes® Stand-alone Client ThinkPad notebooks implement IBM ThinkVantage™ technologies and design; visit ibm.com /thinkvantage Universal 72 watt AC adapter Asset ID™.3⁴ (system-specific info in		
								chip accessed over network) PC 2001 and PXE 2.0-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant ENERGY STAR®-compliant IBM ImageUltra™ Services available International Warranty Service ¹⁷		
128 MB PC2700 E										
128 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9828 256 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9830 512 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9830 1GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IBM GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 IFINIKPad Multiple Battery G-cell 08K8214 T40/R50 High Capacity Li-lon Batt 9-cell 08K8214 T40/R50 High Capacity Li-lon Battery 6-cell 08K8197 ThinkPad Multiple Battery Charge II T40/R50 High Capacity Li-lon Battery 6-cell 08K8187 T40/R50 High Capacity Li-lon Battery 6-cell 08K8197 ThinkPad Multiple Battery Charge II T40/R50 High Capac										

Type-model Processor GHz cache Memory Screen GB® Optical wireless modem 1834-ELU Celeron M 330 1.4 512K 128MB 14.1" XGA 30GB CD None Modem I 1834-EKU Celeron M 330 1.4 512K 256MB 14.1" XGA 30GB CD None Modem I 1834-EQU Celeron M 340 1.5 512K 256MB 15.0" XGA 30GB CD None Modem I 1834-EQU Celeron M 350 1.3 1MB 128MB 14.1" XGA 30GB CD None Modem I 1834-EQU Celeron M 340 1.5 512K 256MB 14.1" XGA 30GB CD None Modem I 1834-EQU Celeron M 340 1.5 512K 256MB 14.1" XGA 30GB CD None Modem I 1834-GQU Celeron M 340 1.5 512K 256MB 15.0" XGA 30GB Combo None Modem I 1834-GQU Celeron M 340 1.5 512K	Extreme 2 No XP Home 1 yr E Sep 04 Extreme 2 No XP Home 1 yr E Sep 04 Extreme 2 No XP Pro 1 yr Sep 04 Extreme 2 No XP Pro 1 yr Sep 04 MHz Windows XP Home models - Microsoft® Windows® XP Home Edition²0 - Dec/Jan models: Service Pack 2 Disk-to-Disk Recovery (in hidden protected area) Windows XP Pro models - Microsoft Windows XP Professional²0 Disk-to-Disk Recovery (in hidden protected area) Preloaded (all)
1834-EKU Celeron M 330	Section Sect
Processor Intel® Celeron M Processor 330 (1.4GHz), 340 (1.5GHz) or 350 (1.3GHz) with 400M system bus or Intel Pentium M Processor 710 (1.4GHz), 715/715a (1.5GHz), or 725 (1.6GHz) with enhanced Intel SpeedStep™ technology¹ and 400MHz system but Celeron M 330/340: 512KB; Celeron M 350: 1MB; Pentium M 710/725: 2 MB; All: E	MHz IS IS IS IS IS IS IS IS IS I
system bus or Intel Pentium M Processor 710 (1.4GHz), 715/715a (1.5GHz), or 725 (1.6GHz) with enhanced Intel SpeedStep™ technology¹ and 400MHz system but L2 cache Celeron M 330/340: 512KB; Celeron M 350: 1MB; Pentium M 710/725: 2 MB; All: E	mm Mindows XP Home models - Microsoft® Windows® XP Home Edition²0 - Dec/Jan models: Service Pack 2 ◇ Disk-to-Disk Recovery (in hidden protected area) Windows XP Pro models - Microsoft Windows XP Professional²0 ◇ Disk-to-Disk Recovery (in hidden protected area) Preloaded (all)
speed to 266MHz) / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / std memory in one socket / one socket available	mm - Microsoft Windows XP Professional ²⁰ ⇒ Disk-to-Disk Recovery (in hidden protected area) Preloaded (all)
Diskette drive CD Some: CD-ROM/24X-10X³ speed / fixed, not removable / 12.7 mm high Combo Some: DVD-ROM/CD-RW / 24X/24X/24X/8X²¹ speed / fixed, not removable / 12.7 Ultrabay Enhanced Disk 30GB³ (4200 rpm), 9.5mm high / removable and upgradable / 9.5mm high bay / IBM Hard Disk Drive Shock Absorber	
Display Some: 14.1" (358.1mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 200 nits	IBM Rescue and Recovery™
Graphics Integrated Intel Extreme™ Graphics 2 / in 855GM GMCH / uses main memory (up to 64MB) / 200MHz Graphics external External monitor support via analog DB-15 connector / up to 1600x1200 at 85Hz / DD	Access IBM Access Connections Norton AntiVirus (OEM edition) PC-Doctor TM
Keyboard TrackPoint® Touch pad ThinkLight™ Reyboard TrackPoint® bointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glangler Touch pad ThinkLight™ Reyboard TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glangler No UltraNav™ multi-pointing system Illuminates the keyboard to improve visibility in low-light conditions	ThinkPad Utilities IBM Update Connector™.15 IBM RecordNOW and Drive Letter Access powered by Sonic products
Dimensions ³ 14.1" models (WxDxH): 12.4" x 10.2" x 1.35-1.46"; 314mm x 260mm x 34-37mm 15.0" models (WxDxH): 13.1" x 10.6" x 1.47-1.58"; 332mm x 269mm x 37-40mm with optical drive and battery: 14.1" models: 6.0 lb (2.7kg); 15.0" models: 6.6 lb (3.0kg) Color: black; All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell / intelligent / supports optional 9-cell battery Celeron M models: up to 3.4 hr; Pentium M models: up to 4.0 hr; Optional High Capacity 9-cell: up to 5.4 hr	 IBM Director Agent Software Delivery Assistant System Migration Assistant License (CD not included)
Architecture Intel 855GM chipset / 82855GM Memory Controller Hub (MCH-M) / 82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, Low Pin Count [LPC] interface, USB) / PCI bus 2.2 32-bit, 33MHz (TI® PCI1510 CardBus controller, Mini PCI) /	- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client Supports IBM ThinkVantage™
Port replicator Docking station PC Card Std slots Ports Ports LPC bus 33MHz (PC87392 Super I/O for parallel) No port replicator support No docking station support One Type I, or one Type III / CardBus 32-bit / PCMCIA 2.1 / integrated Two USB (Version 2.0) / parallel / external monitor (DB-15) / RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mouse or serial or infrared port	PC 2001 and PXE 2.0-compliant
Wireless antenna Some: none / can upgrade to wireless via optional PC Cards Some: UltraConnect™ Antenna built into the display cover	CIM and DMI 2.0-compliant ENERGY STAR®-compliant
Mini PCI Some: no Mini PCI slot (Communications Bay) Some: one Mini PCI slot (Communications Bay) / not customer upgradable Some: one Mini PCI slot (Communications Bay) / not customer upgradable Some: 11b/g Wi-Fi³²² wireless⁴, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 ct One Communications Daughter Card (CDC) socket (used by modem) / not accessibl 56k° V.90 (V.92-designed²³) modem in CDC / Conexant® chipset 10/100 ethernet on planar / Intel 82562EZ chipset (physical layer) / Wake on LAN® Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / mono speaker / 1 watt / volume up, down, mute buttons / no internal microphone / microphone input jack (3.5 mm) / headphone jack (3.5 mm) / no line in jack Power-on password / hard disk password / supervisor password / security keyhole	ServicePac®.22 1yr IOR 9x5 NBD 30L9188 ServicePac 2 yr IOR 9x5 NBD 30L9189 ServicePac 3 yr IOR 9x5 NBD 30L9195
Security chip None Limited warranty ¹² 1 year - EasyServ ^{TM,19} onsite pickup and delivery courier service	ServicePac 4 yr IOR 9x5 NBD 30L9194 ServicePac 5 yr IOR 9x5 NBD
128 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9828 T40/R50 Series Li-Ion Battery 6-cell 08K 256 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9830 T40/R50 High Capacity Li-Ion Batt 9-cell 08K 512 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 T40/R50 High Capacity Li-Ion Battery 6-cell 08K 1GB PC2700 DDR-SDRAM CL2.5 SOD 31P9834 T40/R50 High Capacity Li-Ion Battery 6-cell 08K 1GB PC2700 DDR-SDRAM CL2.5 SOD 31P9834 T40/R50 High Capacity Li-Ion Battery 6-cell 08K 1GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 T40/R50 High Capacity Li-Ion Battery 6-cell 08K 1GB PC2700 DDR-SDRAM CL2.5 SOD 31P9832 31P9832 40GB HS Hard Disk 9.5mm (5400 rpm) 08K 1BM USB Portable Diskette Drive IBM USB 2.0 Combo Drive 73P4515 1BM 11a/b/g Wireless CardBus Adapter 31P	30L9196 8214 8197 9040 9816 4273 9101 ServicePac 2 yr P&L P/U Depot 30L9191 30L9191 30L9191 30L9191 30L9191 30L9191 30L9191 5ervicePac 3 yr P&L P/U Depot 69P9195 ServicePac 4 yr P&L P/U Depot 69P9197

	Mini PCI Speed L2 Disk Comm Bay CDC Integra	
1834-FWU Celero 1834-FXU Celero	ressor GHz cache Memory Screen GB® Optical wireless modem graph of M 320 1.3 512KB 256MB 14.1" XGA 30GB CD Intel 11b/g Wi-Fi³² Modem Extrem of M 340 1.5 512KB 256MB 14.1" XGA 30GB CD Intel 11b/g Wi-Fi Modem Extrem	e™ 2 No XP Pro 1 yr Educ Sep 04
These	834 has a 1 year limited warranty educational models of the ThinkPad notebook are available only to public or private K-12 (or sorganized and operated exclusively for educational purposes for use by qualified students.	
Positioning Processor	Mainstream performance and features; two-spindle system Intel® Celeron M Processor 320 (1.3GHz) or 340 (1.5GHz) with 400MHz system bus	SOFTWARE ¹⁴ Windows XP Professional
L2 cache Memory	512KB / on die (at processor speed) / ECC 256MB std / 2GB max ⁷ / PC2700 333MHz DDR1 (memory controller limits speed to 266MHz) / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / std memory in one socket / one socket available	- Microsoft® Windows® XP Professional²0
Diskette drive CD Ultrabay Enhanced Disk	None standard / use optional USB-based diskette drive CD-ROM / 24X-10X ⁹ speed / fixed, not removable / 12.7 mm high I None / no support for removable Ultrabay™ options 30GB ⁸ (4200 rpm), 9.5mm high / removable and upgradable / 9.5mm high bay / IBM Hard Disk Drive Shock Absorber	Preloaded (all) • Education software from Vital Source Technologies®: vitalsource KEY™ and Personal Portable library™
Display	14.1" (358.1mm) XGA (1024x768) TFT color / Active Matrix / 150 nits / one latch to unlatch and open with one hand	Access IBM Access Connections IBM Bassus and Bassus IIM
Graphics external	Integrated Intel Extreme™ Graphics 2 / in 855GM GMCH / uses main memory (up to 64MB) / 200MHz External monitor support via analog DB-15 connector / up to 1600x1200 at 85Hz / DDC2B	 IBM Rescue and Recovery™ Norton AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM button / palm rest / pitch: 19mm; stroke: 2.7mm (std-size keys) TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass No UltraNav™ multi-pointing system Illuminates the keyboard to improve visibility in low-light conditions	 Adobe Reader IBM Update Connector^{TM.15} Downloadable IBM Director Agent
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models (WxDxH): 12.4" x 10.2" x 1.35-1.46"; 314mm x 260mm x 34-37mm with optical drive and battery: 14.1" models: 6.0 lb (2.7kg) Color: black; All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell / intelligent / supports optional 9-cell battery Up to 3.5 hr; Optional 9-cell: up to 5.5 hr	Software Delivery Assistant System Migration Assistant License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Port replicator Docking station PC Card Std slots Ports	Intel 855GM chipset / 82855GM Memory Controller Hub (MCH-M) / 82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, Low Pin Count [LPC] interface, USB) / PCI bus 2.2 32-bit, 33MHz (TI® PCI1510 CardBus controller, Mini PCI) / LPC bus 33MHz (PC87392 Super I/O for parallel) No port replicator support No docking station support One Type I, one Type II, or one Type III / CardBus 32-bit / PCMCIA 2.1 / integrated door Two USB (Version 2.0) / parallel / external monitor (DB-15) / BL11 (enterpre) / paraller / personal project or infrared port	ThinkPad notebooks implement IBM ThinkVantage™ technologies and
IEEE 1394 Wireless antenna Mini PCI Intel 11b/g³² CDC Modem Bluetooth Ethernet Audio support Security Security chip	RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mouse or serial or infrared port None UltraConnect™ Antenna built into the display cover for optimal wireless signal reception One Mini PCI slot (Communications Bay) / not customer upgradable 11b/g Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chipset One Communications Daughter Card (CDC) socket (used by modem) / not accessible 56K⁰ V.90 (V.92-designed²³) modem in CDC / Conexant® chipset None 10/100 ethernet on planar / Intel 82562EZ chipset (physical layer) / Wake on LAN® Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / mono speaker / 1 watt / volume up, down, mute buttons / no internal microphone / microphone input jack (3.5 mm) / headphone jack (3.5 mm) / no line in jack Power-on password / hard disk password / supervisor password / security keyhole None	design; visit ibm.com/thinkvantage Universal 72 watt AC adapter Asset ID™.34 (system-specific info in chip accessed over network) PC 2001 and PXE 2.0-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant ENERGY STAR®-compliant ENERGY STAR®-compliant IBM ImageUltra™ Services available International Warranty Service¹ 24 hour x 7 day¹® toll-free warranty support during the warranty¹² via 800-IBM-SERV (426-7378)
Limited warranty ¹² Service options	1 year - EasyServ ^{TM,19} onsite pickup and delivery courier service Service upgrades ²² provide up to five years of onsite or depot repair service coverage from date of ThinkPad purchase (including warranty period)	ServicePac ^{®, 22} 1yr IOR 9x5 NBD 30L9188 ServicePac 2 yr IOR 9x5 NBD 30L9189
256 MB PC2700 I 512 MB PC2700 I 1GB PC2700 DD IBM 4GB Microdr IBM USB Portabl IBM USB 2.0 Port IBM USB 2.0 Mer IBM USB 2.0 Mer IBM USB 2.0 Mer IBM USB E.0 Mer IBM USB Travel I IBM Enh Perf Wir IBM Preferred Pr 30GB Hard Disk 9 40GB HS Hard D	R-SDRAM CL2.5 SOD ve™ with PC Card o9N4280 o9N4280 o9N4280 oemPC400 Smart Card Reader/Writer o9N4280	ServicePac 3 yr IOR 9x5 NBD 30L9195 ServicePac 4 yr IOR 9x5 NBD 30L9194 ServicePac 5 yr IOR 9x5 NBD 30L9196 ServicePac 2 yr P&L P/U Depot 30L9191 ServicePac 3 yr P&L P/U Depot 30L9192 ServicePac 4 yr P&L P/U Depot 69P9195 ServicePac 5 yr P&L P/U Depot 69P9197 Post-warranty annual maintenance agreements at ibm.com/services/its/us/source/ maspspleu.pdf

												i Oystoms		, -
T I.I B		Speed L2		0	Disk	0-4	Mini Comm	n Bay	CDC	Integr	ated rity	ı- Limited warranty	¹² Global	(G) Áva
Type-model P 1842-2QU Celer 1842-2RU Celer 1842-BJU Penti	ron M	GHz cache 1.3 512K 1.3 512K 5 1.5 2MB	256MB 2 256MB 2 256MB 2	15.0" XGA 15.0" XGA 15.0" XGA	30GB 30GB	Combo >	None None None * Intel 11b/g	g Wi-Fi ³²	Modem Modem	Extrem Extrem Extrem	e™ 2 No e 2 No e 2 No		1 yr No 1 yr No 1 yr No	May (July (
1842-PPU Penti 1842-GQU Celer 1842-GRU Celer 1842-G3U Celer 1842-G7U Celer 1842-GBU Celer	ron M 330 ron M 330 ron M 340 ron M 350 ron M 350	1.4 512K 1.4 512K 1.5 512K 1.5 512K 1.3 1MB	256MB 2 256MB 2 256MB 2	15.0" XGA 15.0" XGA 15.0" XGA	30GB 30GB 30GB 30GB	CD Combo CD Combo	* Intel 11b/ç None None None None None		Modem Modem Modem Modem	Extrem Extrem Extrem Extrem	e2 No e2 No e2 No e2 No	XP Pro XP Pro XP Pro XP Pro XP Pro XP Pro	1 yr No 1 yr No 1 yr No 1 yr No	Dec (Dec (Sep (Sep (
1842-GDU Celer 1842-HRU Penti • These small	ium M 725 <i>I and med</i>	1.6 2MB ium business	256MB ′ (SMB) m	odels are	30GB part of	Combo > the IBM L		g Wi-Fi	Modem	Extrem	e2 No		1 yr No	Sep (
Positioning Processor	Intel [®]	tream perforn Celeron M Pı	ocessor	1.3GHz, 3	30 (1.4	GHz), 340	0 (1.5GHz) (<i></i>		NARE ¹⁴	
L2 cache Memory	with er Celero 256MI (memo	Hz system but hanced Intel on M and M 33 3 std / 2GB m ory controller 00-pin SO-DII	SpeedSt 30/340: 51 ax ⁷ / PC 2 limits spe	ep™ techr I 2KB ; <i>Cel</i> 2700 333N eed to 266	nology ¹ <i>leron M</i> //Hz DD MHz) / r	and 400N <i>350:</i> 1MB R1 non-parity	MHz sỳstem 3 ; <i>Pentium N</i> y / CL2.5 /	bus <i>1715/718</i>	` 5a/725: 2	MB -	Microso Professi Dec/Jan Disk-to-l	XP Profe ft® Window onal ²⁰ o models: Disk Reco en protecte	ws® XP Service F overy	ack 2
Diskette drive CD Combo Ultrabay Enhanc Disk	Some: Some: ed None/ 20GB	standard / us · CD-ROM / ; · DVD-ROM / · no support fo · or 30GB (42 · high bay / IB	24X-10X ⁹ CD-RW / or remova 00 rpm), 9	speed / fi 24X/24X/ ble Ultraba 5.5mm hig	xed, no 24X/8X ay™ opti h / remo	t removat ²¹ speed <i>i</i> ions ivable and	ble / 12.7 mi / fixed, not r d upgradabl	emovabl	e / 12.7 r	mm	IBM Res Norton A PC-Doct	IBM [°] Connectic scue and I AntiVirus (tor™	Recovery OEM ed	
Display		(381.0mm) X (tch to unlatch				Active M	atrix / 200 n	its/		•	Adobe R			
Graphics	Integr uses n	ated Intel Ex	treme™ (Graphics MB) / 200	2 / in 85 MHz	55GM GM	ICH /				IBM Red	late Conn cordNOW	and Driv	
Graphics externa	al Extern	al monitor su	pport via	analog DB	-15 con		•				(combo		•	
Reyboard TrackPoint® Touch pad ThinkLight™	ouch pad No UltraNav [™] multi [™] pointing system									D •	ownload IBM Dire	eo WinDV lable ector Ager e Delivery	nt .	
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	with or <i>Color:</i> Lithiur	models (WxD otical drive an black; All: A n Ion 6-cell / i on M models:	d battery: Acrylonitri ntelligent	15.0" mod le-Butadie / supports	dels: 6.6 ene-Styl optiona	lb (3.0kg rene (AB 19-cell ba	l) S) plastic ttery			L	System Migration Assistant License (CD not included) Lotus® SmartSuite® Millenniur Lotus Notes® Stand-alone Clie			
Architecture	82801 Low P PCI bu	55GM chipse DBM ICH4-M in Count [LPC is 2.2 32-bit, 3	I/O Cont interfac 33MHz (T	roller Hub e, USB) / I® PCI151	(ÅTA-10 0 CardE	00 EIDE, I Bus contro	PCI bus, eth	nernet MA	AC,	T de	hinkVant esign; vis	notebook age™ tec sit ibm.co	hnologie: m /thinkv	s and antage
Port replicator Docking station PC Card Std slot Ports	No por No doo ts One T Two U	us 33MHz (Pot replicator suching station suppe I, one Ty SB (Version (modern) / R	ipport support pe II, or o 2.0) / para	ne Type II	II / Card rnal mo	Bus 32-b	-15) /			door P A C	ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant			
IEEE 1394 Wireless antenna Mini PCI Intel 11b/g ³²	Some: Some: Some:	none / can u UltraConne no Mini PCI one Mini PC 11b/g Wi-Fi	ct™ Anter slot (Con I slot (Co	nna built in nmunicatio mmunicat	to the di ons Bay ions Ba	splay cov ') 'y) / not cı	er ustomer upd	gradable G. Intel 8	2532 chi	IE Ir 2	BM Image Iternation 4 hour x support	STAR®-co eUltra™ S nal Warra 7 day¹8 to during the IBM-SER	ervices a nty Servi II-free wa e warrant	ce ¹⁷ irranty ty ¹²
CDC Modem	One C	ommunicatio '.90 (V.92-de	ns Daugh	ter Card (0	CDC) so	cket (use	ed by moder	n) / not a	ccessible	S	ervicePa	c ^{®, 22} 1yr		NBD 30L918
Bluetooth Ethernet Audio support	Soft a	ethernet on udio / ICH AC	97 contro	oller / Direc	ctSound	d® süppor	t / AD1981E	3 AC97 c	odec/			c 2 yr IOF c 3 yr IOF	8 9x5 NB	30L918
Security											c 4 yr IOF	9x5 NB	D 30L919	
Security chip Limited warranty	None 12 1 year	· - EasyServ™	^{1,19} onsite	pickup an	d delive	ry courier	rservice					c 5 yr IOF	;	30L919
128 MB PC2700 256 MB PC2700	0 DDR-SI	DRAM CL2.5	SOD 311	P9828 T4	0/R50 S	Series Li-	lon Battery acity Li-Ion		08K8	214		.c 2 yr P& .c 3 yr P&	;	30L919
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IBM 4GB Micro	ble Diske	tte Drive	051	K9276 80	GB HS	Hard Disl	k 9.5mm (54 k 9.5mm (54 kss CardBus	100 rpm)	08K9 09N4	273 S	ervicePa	c 5 yr P&l	P/U De	
IBM USB 2.0 PO IBM USB 2.0 PO IBM USB 2.0 M IBM M400 Proje	ortable 40 lemory Ke ector	GB Hard Disl y 512MB	22l 22l 00	P7196 IB P9230 Th 37A04 Th	M Optic iinkPad iinkPad	aľ 3-Butto 72W AC/ Premiere	ess CardBus on Travel W /DC Combo Leather Car	heel Mou Adapter rrying Cas	use 31P7 22P9 se 10K0	7410 P	greemen ibm.c	om/servi	al mainte	
Kensington® Mi	iciosaver	Security Car	73I	P2582 Ot	nei obti	ons at ibi	m.com /pc/u	is/access	SOLIES		masp	spleu.pdf		

	Speed sor GHz Memory Scree		Optical		CDC modem	<u> </u>	1394 Securit port chip	y Glob Preload Entr	orse (W) al (G) Avail y (E) date				
× 1830-AKU Pentiur × 1830-ALU Pentiur × 1830-BLU Pentiur 1830-BQU Pentiur 1830-BVU Pentiur	n®M 1.6 256MB 14.1" X nM 1.6 512MB 14.1" X nM 1.6 256MB 14.1" X nM 1.6 256MB 15.0" X nM 1.6 256MB 15.0" X nM 1.6 256MB 15.0" X odels have a 3 year limit	GA 7500 40HS GA 7500 40GB GA 7500 40GB XGA+ 9000 40GB GA 7500 40GB	Combo Combo * Combo * Combo	11a/b/g Wi-Fi ³² IBM 11b/g ³² IBM 11b/g ³² Intel 11b Wi-Fi ³² Intel 11b/g Wi-Fi IBM 11b/g	Modem (Modem (Modem (Modem (Modem (Gigabit Gigabit Gigabit Gigabit Gigabit	1394 Yes 1394 Yes	XP Pro XP Pro W XP Pro W XP Pro W XP Pro W	Apr 2004 Apr 2004 Apr 2004 G Apr 2004 Apr 2004 Apr 2004				
Positioning	Mainstream performant	ce and features; two-s	spindle sys	tem			SOFTWARE ¹⁴						
Processor L2 cache Memory		step™ technology¹ ar sor speed) / ECC B max² / PC2700 333 -DIMM sockets / std	3MHz DDF memory ir	R1 (DDR-SDRAM) / r n one socket / one so		.y / -	Windows XP Professional - Microsoft® Windows® XP Professional® e ♦ Disk-to-Disk Recovery (in hidden protected area)						
Disk	None standard / use op DVD-ROM/CD-RW / 2 ² One modular bay for int 40GB³ (4200 rpm) or 40 9.5mm high bay / suppo IBM Hard Disk Drive S	X/24X/24X/8X ²¹ speerchangeable device GB (HS 5400 rpm), 9 Irts 2nd disk with opti hock Absorber / IBI	eed / removes / Ultrabay 9.5mm high onal 'Seco M Active P	vable from Ultrabay E y Slim-compatible / 1. n / removable and up nd HDD Adapter for U Protection System	2.7 mm h gradable Ultrabay S	nigh // Slim'/	Preloaded						
Display	Some: 14.1" (358.1mm Some: 15.0" (381.0mm Some: 15.0" (381.0mm FlexView displa	nits 200 nits / PS techno	ology	products (c InterVideo	combo models WinDVD (com iVirus (OEM e	s) nbo)							
Graphics external	Some: ATI® Mobility™ Some: ATI Mobility R External monitor suppo	AM) 5Hz/DD	C2B	ThinkPad lAdobe Rea	Jtilities	1,15							
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM by TrackPoint® pointing de UltraNav™ multi-pointir Illuminates the keyboar	ss	Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant										
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models (WxDxH). 15.0" models (WxDxH), with optical drive and bc Color: black; All: Acry Lithium Ion 6-cell / intel Model BQU with SXGA	3.0kg) [Client Security chase (CD Lotus® Small 	irity Software	(for ennium and								
Architecture PC Card Std slots Ports	Intel 855PM chipset / 8: 82801DBM ICH4-M I/O Low Pin Count [LPC] in: PCI4520A CardBus and (security chip; PC87392 One Type I, one Type I Two USB (Version 2.0) RJ-11 (modem) / RJ-45	Controller Hub (ATA verface, USB, [Blueto d 1394 controller, Mir 2 Super I/O for paralle l, or one Type III / Ca / parallel / external r	100 EIDE both]) / PCI hi PCI, exte el, infrared, ardBus 32- monitor (DI	, PCI bus, ethernet M bus 2.2 32-bit, 33MH rnal expansion) / LPC [docking-based ports bit / PCMCIA 2.1 / in B-15) / infrared (4Mb	Hz (TI® C bus 33I s]) ntearated	door	ThinkPad notebooks implement I ThinkVantage™ technologies and						
Video out IEEE 1394	S-video out port (TV ou IEEE 1394 (FireWire) p	t) / one 4-pin industr ort / 4-pin connector	y standard / 1394a-20	connector 000 standard		l	design; visit i	bm.com/thin	kvantage				
Wireless antenna Mini PCI 11b Wi-Fi ³² Intel 11b/g ³² IBM 11b/g ³² 11a/b/g Wi-Fi ³² CDC Modem Bluetooth Ethernet Audio support	UltraConnect™ Antenna One Mini PCI type III sI Some: 11b Wi-Fi³² wire Some: 11b/g Wi-Fi³² wire Some: IBM 11b/g Wi-Fi³² One Communications E 56K ⁶ V.90 (V.92-design None standard Gigabit Ethernet on pla Soft audio / ICH AC97 stereo speakers / 1 wat	inipset F	Universal 72 watt AC adapter Asset ID™34 (system-specific info in chip accessed over network) PC 2001 and PXE 2.0-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant ENERGY STAR®-compliant IBM ImageUltra™ Services available International Warranty Service¹ 24 hour x 7 day¹8 toll-free warranty support during the warranty¹² via 800-IBM-SERV (426-7378)										
Security Security chip	microphone input jack (Power-on password / h IBM Embedded Secur authentication / local fil	ard disk password / ity Subsystem 2.03	súpervisor ³ / hardwar	r pasśword / security re key storage / multi-	keyhole -factor		ServicePac 3	²² 2 yr IOR 9x 3 yr IOR 9x5 N	30L9190 NBD 30L9197				
Limited warranty ¹²	3 years/1 yr battery - E	asyServ™,¹9 onsite p	ickup and	delivery / service upg	rades ²² a	avail	ServicePac 4	yr IOR 9x5 N	NBD 69P9198				
512MB PC2700 DDF 1GB PC2700 DDF Second HDD Ada CD-RW/DVD Con	DR-SDRAM CL2.5 SOIDR-SDRAM CL2.5 SOIDR-SDRAM CL2.5 SOD pter for Ultrabay Slimbo Ultrabay Enhanced Ultrabay Enhanced Drive Diskette Drive	8197 8190 22801 4301 9101	ServicePac	5 yr IOR 9x5 N 1 yr P&L P/U 5 yr P&L P/U I ePac options	NBD 69P9200 Depot 69P9199 Depot 69P9201								
IBM USB 2.0 Porta IBM USB 2.0 Mem 30GB Hard Disk 9 40GB HS Hard Disk	able Multi-Burner Drive nory Key 512MB .5mm (4200 rpm) sk 9.5mm (5400 rpm) sk 9.5mm (5400 rpm)	22P9163 ThinkP 22P9230 ThinkP 09N4268 ThinkP 08K9816 IBM M- 09N4273 IBM Op	ad Port Re ad Mini Do ad Dock II 400 Projec otical 3-But	ock	74P 287 287 003 ouse 31P	6733 810U 710U F 8A04	ibm.com/ wamomxe Post-warrant agreements	services/its/u eu.pdf ey annual mair at services/its/u	s/source/ ntenance				

Type-model Pro	Speed GHz Memory	Graphics Disk Screen controller GB [®]	Mini PCI Comm Bay Optical wireless	CDC o modem pla						
1830-8MU Pentiur 1830-8TU Pentiur 1830-9TU Pentiur 1830-9TU Pentiur 1830-PVU Pentiur 1830-F4U Pentiur	m M 725	0" XGA 7500 40GB 1" XGA 7500 40GB 1" XGA 7500 40GB 0" SXGA+9000 40GB 0" XGA 7500 40GB 0" XGA 7500 40GB	Combo *Intel 11b/g Wi-Fi ³² Combo *Intel 11b/g Wi-Fi Combo *Intel 11b/	Modem Gig Modem Gig Modem Gig Modem Gig Modem Gig Modem Gig	abit 1394 Yes XP Pro No Jul 04 abit 1394 Yes XP Pro No Jul 04 abit 1394 Yes XP Pro W G Sep 04 abit 1394 Yes XP Pro W Sep 04 abit 1394 Yes XP Pro W Sep 04 abit 1394 Yes XP Pro W G Sep 04 abit 1394 Yes XP Pro W Sep 04 r limited warranty)					
Positioning	Mainstream performance				SOFTWARE ¹⁴					
Processor L2 cache Memory		ep™ technòlogy¹ ańd 40 or speed) / ECC max² / PC2700 333M⊦			Windows XP Professional - Microsoft® Windows® XP Professional²0 ⇒ Disk-to-Disk Recovery					
Diskette drive Combo Ultrabay Enhancec Disk	d One modular bay for intel 40GB ° (4200 rpm) or 40G 9.5mm high bay / support	(/24X/24X/8X ²¹ speed / changeable devices / L GB (HS 5400 rpm), 9.5m is 2nd disk with optional	tte drive 'removable from Ultrabay Er Jltrabay Slim-compatible / 12 nm high / removable and upg I 'Second HDD Adapter for U ctive Protection System	7 mm high adable /	(in hidden protected area) Preloaded • Access IBM • Access Connections • IBM Rescue and Recovery™ • Norton AntiVirus (OEM edition)					
Display	Some: 14.1 " (358.1mm) Some: 15.0 " (381.0mm)		PC-Doctor™ ThinkPad Utilities							
Graphics Graphics external Keyboard	Some: ATI® Mobility™ F Some: ATI Mobility RA External monitor support 87-key / Access IBM but	DRAM) /I) Hz/DDC2B	Adobe Reader IBM Update Connector ^{TM,15} IBM RecordNOW and IBM Drive Letter Access powered by Sonic products (combo models)							
TráckPoint® Touch pad ThinkLight™	TrackPoint® pointing dev UltraNav™ multi-pointing Illuminates the keyboard	ring glass	 InterVideo WinDVD (combo) Downloadable IBM Director Agent 							
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models (WxDxH): 1 15.0" models (WxDxH): 1 with optical drive and bat Color: black; All: Acrylc Lithium Ion 6-cell / intelli, Model with SXGA+: up to	 Software Delivery Assistant System Migration Assistant Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and 								
Architecture PC Card Std slots Ports	Low Pin Count [LPC] inte PCI4520A CardBus and (security chip; PC87392 Sone Type II, one Type II,	controller Hub (ATA-100 frace, USB, [Bluetooth] 1394 controller, Mini PC Super I/O for parallel, in or one Type III / CardB parallel / external moni	DEIDE, PCI bus, ethernet MA) /PCI bus 2.2 32-bit, 33MHz CI, external expansion/ LPC frared, [docking-based ports] bus 32-bit / PCMCIA 2.1 / int itor (DB-15) / infrared (4Mbp	(ŤI [®] bus 33MHz) egrated door	Lotus Notes® Stand-alone Client					
Video out IEEE 1394 Wireless antenna	S-video out port (TV out) IEEE 1394 (FireWire) po UltraConnect™ Antenna	/ one 4-pin industry start / 4-pin connector / 13	andard connector 94a-2000 standard ver for optimal wireless signal	reception	ThinkPad notebooks implement IBM ThinkVantage™ technologies and design; visit ibm.com /thinkvantage					
Mini PCI Intel 11b/g ³² CDC Modem Bluetooth Ethernet Audio support	One Communications Da 56K ⁶ V.90 (V.92-designe None standard Gigabit Ethernet on plana	fini PCI, Intel PRO/Wire aughter Card (CDC) soo d ²⁹) modem in CDC / Co ar / Intel 82540EP chips	eless 2200BG, Intel 82532 ch cket (used by modem) / not ac	ccessible	Universal 72 watt AC adapter Asset ID ^{TM-34} (system-specific info in chip accessed over network) PC 2001 and PXE 2.0-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant ENERGY STAR®-compliant					
Security Security chip	microphone input jack (3 Power-on password / ha IBM Embedded Securit authentication / local file	.5 mm) / headphone ja rd disk password / sup y Subsystem 2.0 ³³ / ha encryption / enhances	te buttons / internal microphock (3.5 mm) / no line in jack ervisor password / security k ardware key storage / multi-f VPN security ¹⁶ / TCG-compl	eyhole actor iant	IBM ImageUltra™ Services available International Warranty Service¹7 24 hour x 7 day¹8 toll-free warranty support during the warranty¹² via 800-IBM-SERV (426-7378)					
Limited warranty ¹²			p and delivery / service upgra		ServicePac®, 22 2 yr IOR 9x5 NBD					
256 MB PC2700 E 512 MB PC2700 E 1GB PC2700 DDI Second HDD Ada ThinkPad DVD-R CD-RW/DVD Con Multi-Burner Plus IBM 4GB Microdri IBM USB Portable IBM USB 2.0 Con IBM USB 2.0 Porta	128 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9828 Z40/R50 Series Li-Ion Battery 6-cell 256 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9830 T40/R50 High Capacity Li-Ion Batt 9-cell 31P9830 T40/R50 High Capacity Li-Ion Batt 9-cell 31P9830 T40/R50 High Capacity Li-Ion Batt 9-cell 31P9830 Second HDD Adapter for Ultrabay Slim Drive 73P3275 ThinkPad DVD-ROM Ultrabay Slim Drive CD-RW/DVD Combo Ultrabay Enhanced Drive 18M 4GB Microdrive™ with PC Card 18M USB Portable Diskette Drive 18M USB 2.0 Combo Drive 18M USB 2.0 Portable Multi-Burner Drive 18M USB 2.0 Portable Multi-Burner Drive 22P9163 ThinkPad Port Replicator II 30L91 T40/R50 Series Li-Ion Battery 6-cell 31P9830 T40/R50 High Capacity Li-Ion Batt 9-cell 31P9830 ServicePac 3 yr IOR 9x5 NBD 30L91 ServicePac 4 yr IOR 9x5 NBD 30L91 ServicePac 4 yr IOR 9x5 NBD 30L91 ServicePac 5 yr IOR 9x5 NBD 30L91 ServicePac 4 yr IOR 9x5 NBD 30L91 ServicePac 4 yr IOR 9x5 NBD 30L91 ServicePac 5 yr IOR 9x5 NB									
IBM USB Travel k 40GB HS Hard Di		31P9490 SonyÉricss 08K9816 ThinkPad C		26K3393 73P3597	ibm.com/services/its/us/source/ warnomxeu.pdf Post-warranty annual maintenance agreements at ibm.com/services/its/us/source/ maspspleu.pdf					

Type-model Prod	Speed sessor GHz Memory S	Disk creen GB [®] Optica	Mini PCI Comm Bay I wireless	Ethernet CDC on modem planar	Secu- Workhorse (W) rity Limited Global (G) Avail chip Preload warranty¹²Education date			
■ 1830-8LU Pentiur ■ 1830-PUU Pentiur ■ 1830-9QU Pentiur	n M 1.5 512MB 14.1 n M 1.5 512MB 15.0	"XGA 60GB DVD-R' "XGA 40GB Combo "SXGA+ 60GB Combo "XGA 40GB Combo "XGA 60GB DVD±R "XGA 40GB Combo "XGA 40GB Combo "XGA 60GB Combo	W *Intel 11b/g Wi-Fi *Intel 11b/g Wi-Fi *Intel 11b/g Wi-Fi *Intel 11b/g Wi-Fi W *Intel 11b/g Wi-Fi *Intel 11b/g Wi-Fi *Intel 11b/g Wi-Fi	Modem Gigabit Modem Gigabit Modem Gigabit Modem Gigabit Modem Gigabit Modem Gigabit Modem Gigabit	Yes XP Pro EasyServ Educ Apr 04 Yes XP Pro EasyServ Educ Apr 04 Yes XP Pro EasyServ Educ Apr 04 Yes XP Pro EasyServ Educ Apr 04 Yes XP Pro EasyServ Educ Sep 04 Yes XP Pro EasyServ Educ Sep 04 Yes XP Pro EasyServ Educ Sep 04 Yes XP Pro EasyServ Educ Sep 04 Yes XP Pro EasyServ Educ Sep 04			
Positioning		e and features; two-spindl		25 (4 2011)	SOFTWARE ¹⁴			
Processor L2 cache Memory	Intel® Pentium® M Proce with enhanced Intel Sper 1.5GHz: 1MB; 1.6GHz: 512MB std / 2GB max ⁷ / two 200-pin SO-DIMM s	edStep™ technology¹ and 2MB ; <i>All:</i> on die (at prod PC2700 333MHz DDR1	d 400MHz system bus cessor speed) / ECC (DDR-SDRAM) / non-	-parity / CL2.5 /	Windows XP Professional - Microsoft® Windows® XP Professional²⁰ ⇒ Disk-to-Disk Recovery (in hidden protected area)			
Diskette drive Combo DVD-RW DVD±RW Ultrabay Enhanced Disk	None standard / use opti Some: DVD-ROM/CD-F Some: CD-RW/DVD-RV Some: DVD and CD but One modular bay for inte 40GB ⁸ or 60GB, 4200 rp supports 2nd disk with op Disk Drive Shock Abso	Preloaded • Education software from Vital Source Technologies®: vitalsource KEY™ and Personal Portable library™ • Access IBM • Access Connections						
Display	Some: 14.1" (358.1mm Some: 15.0" (381.0mm Some: 15.0" (381.0mm FlexView display switching (IPS)	00 nits c / 200 nits /	IBM Rescue and Recovery™ Norton AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities Adobe Reader IBM Update Connector™.15					
Graphics Graphics external	ATI® Mobility™ RADEO External monitor support		IBM RecordNOW and Drive Letter Access powered by Sonic					
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM but TrackPoint® pointing dev UltraNav™ multi-pointing Illuminates the keyboard	std-size keys) agnifying glass	products (combo, DVD-RW, DVD±RW) • InterVideo WinDVD (combo, DVD-RW, DVD±RW) • InterVideo WinDVD Creator					
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models (WxDxH): 15.0" models (WxDxH): with optical drive and bat Color: black; All: Acrylo Lithium Ion 6-cell / intelli Models with SXGA+: up	7-40mm 6.6 lb (3.0kg) nhanced	(DVD-RW, DVD±RW) • IBM Simple Backup (DVD-RW, DVD±RW) Downloadable • IBM Director Agent					
Architecture PC Card Std slots Ports	One Type I, one Type II, Two USB (Version 2.0) /	Controller Hub (ATA-100 I rface, USB, [Bluetooth]), 1394 controller, Mini PCI, Super I/O for parallel, infra or one Type III / CardBu parallel / external monito	EIDE, PCI bus, etherne / PCI bus 2.2 32-bit, 33 external expansion) / ared, [docking-based p s 32-bit / PCMCIA 2.1 or (DB-15) / infrared (4	BMHz (Ťl® LPC bus 33MHz ports]) / integrated door !Mbps) /	Software Delivery Assistant System Migration Assistant Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client			
Video out IEEE 1394 Wireless antenna Mini PCI Intel 11b/g³² CDC Modem Bluetooth Ethernet Audio support	RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mouse or serial port Video out S-video out port (TV out) / one 4-pin industry standard connector IEEE 1394 (FireWire) port / 4-pin connector / 1394a-2000 standard UltraConnect™ Antenna built into the display cover for optimal wireless signal reception One Mini PCI Intel 11b/g³² One Mini PCI type III slot (Communications Bay) / customer upgradable 11b/g Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chipset One Communications Daughter Card (CDC) socket (used by modem) / not accessible 56K6 V.90 (V.92-designed²⁵) modem in CDC / Conexant® chipset None standard Gigabit Ethernet on planar / Intel 82540EP chipset (MAC/PHY) / Wake on LAN®							
Security Security chip	Power-on password / ha IBM Embedded Securit authentication / local file	y Subsystem 2.0 33 / har encryption / enhances V	dware key storage / m PN security ¹⁶ / TCG-c	ulti-factor ompliant	ServicePac options at ibm.com/services/its/us/source/ wamomxeu.pdf			
256 MB PC2700 E 512 MB PC2700 DI 1GB PC2700 DDI Second HDD Ada CD-RW/DVD Con Multi-Burner Plus IBM USB Portable IBM USB 2.0 Com IBM USB 2.0 Porta 40GB HS Hard Di		31P9828 T40/R50 Ser 31P9830 T40/R50 Hig 31P9832 Ultrabay Slin 1ntel PRO/W 62P4554 IBM 11a/b/g 73P3275 IBM 11a/b/g 73P3312 ThinkPad 72 05K9276 Kensington® 73P4515 ThinkPad Po 22P9163 ThinkPad Do 08K9816 ThinkPad Do	ies Li-Ion Battery 6-ce h Capacity Li-Ion Batt n Li-Polymer Battery 3 ireless 2200BG Mini P Wireless Mini PCI Ada Wireless CardBus Ada W AC/DC Combo Ada MicroSaver® Security ort Replicator II ni Dock	9-cell 08K8214 9-cell 08K8197 -cell 08K8190 73P2801 apter II 73P24301 apter 31P9101 Cable 73P2582 74P6733 287810U 287710U	These educational models of the ThinkPad notebook are available only to public or private K-12 (or higher) accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers. This model for education is for sale direct from IBM or through an Authorized Education Reseller. The model or models for education are not available for resale to any other organization or individual.			

Type-model Pro	Speed cessor GHz Memory Screen	Disk GB ⁸ Optical		Ethernet CDC on odem planar	rity Limited Global (G) Ávail	
☞ 1831-8LU Pen ☞ 1831-PUU Pen ☞ 1831-9QU Pen	tium M 1.5 512MB 14.1" XGA tium M 1.5 512MB 15.0" XGA	60GB DVD-RW 40GB Combo + 60GB Combo 40GB Combo 60GB DVD±RW 40GB Combo + 60GB Combo	*Intel 11b/g Wi-Fi M *Intel 11b/g Wi-Fi M	odem Gigabit odem Gigabit odem Gigabit odem Gigabit odem Gigabit odem Gigabit	Yes XP Pro Onsite Educ Apr 2004 Yes XP Pro Onsite Educ Apr 2004 Yes XP Pro Onsite Educ Apr 2004 Yes XP Pro Onsite Educ Apr 2004 Yes XP Pro Onsite Educ Sep 2004 Yes XP Pro Onsite Educ Sep 2004 Yes XP Pro Onsite Educ Sep 2004 Yes XP Pro Onsite Educ Sep 2004 Yes XP Pro Onsite Educ Sep 2004	
Positioning	Mainstream performance and fe				SOFTWARE ¹⁴	
Processor L2 cache Memory	Intel® Pentium® M Processor 1 with enhanced Intel SpeedStep 1.5GHz: 1MB; 1.6GHz: 2MB; 512MB std / 2GB max ⁷ / PC270 two 200-pin SO-DIMM sockets	[™] technology¹ and [△] All: on die (at proce 1 0 333MHz DDR1 (I	400MHz system bus ssor speed) / ECC DDR-SDRAM) / non-p	arity / CL2.5 /	Windows XP Professional - Microsoft® Windows® XP Professional²⁰ ♦ Disk-to-Disk Recovery (in hidden protected area)	
Diskette drive Combo DVD-RW DVD±RW Ultrabay Enhand Disk	None standard / use optional Usesome: DVD-ROM/CD-RW / 24 Some: DVD-RW/DVD-RW Multing Some: DVD and CD burner / Moded One modular bay for interchanged 40GB³ or 60GB , 4200 rpm, 9.55 supports 2nd disk with optional bisk Drive Shock Absorber / III	X/24X/24X/8X ²¹ spi Burner / removable ulti-Burner Plus / re leable devices / Ultr nm high / removable Second HDD Adapt	eed / removable from U from Ultrabay Enhand movable from Ultraba abay Slim-compatible / e and upgradable / 9.5i er for Ultrabay Slim' / II	ced y Enhanced 12.7 mm high mm high bay / BM Hard	Preloaded • Education software from Vital Source Technologies®: vitalsource KEY™ and Personal Portable library™ • Access IBM • Access Connections	
Display	Some: 14.1" (358.1mm) XGA (Some: 15.0" (381.0mm) XGA (Some: 15.0" (381.0mm) SXGA FlexView display with w	1024x768) TFT col + (1400x1050) TFT	or / Active Matrix / 200 color / Active Matrix /	nits 200 nits /	IBM Rescue and Recovery™ Norton AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities Adobe Reader	
Graphics Graphics extern	ATI® Mobility™ RADEON™ 90 al External monitor support via ana	И) 85Hz / DDC2B	IBM Update Connector™,15 IBM RecordNOW and Drive			
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM button / pa TrackPoint® pointing device, "P UltraNav™ multi-pointing syster Illuminates the keyboard to imp	d-size keys) nifying glass s	Letter Access powered by Sonic products (combo, DVD-RW, DVD±RW) InterVideo WinDVD (combo, DVD-RW, DVD±RW)			
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models (WxDxH): 12.4" x 15.0" models (WxDxH): 13.1" x with optical drive and battery: 14 Color: black; All: Acrylonitrile- Lithium Ion 6-cell / intelligent / s Models with SXGA+: up to 3.7 I	10.6" x 1.47-1.58"; 3 <i>1.1" models:</i> 6.0 lb (2 Butadiene-Styrene upports unique 2nd	332mm x 269mm x 37- 2.7kg); <i>15.0" models:</i> 6. (ABS) plastic battery in Ultrabay Enh	40mm 6 lb (3.0kg) anced	InterVideo WinDVD Creator (DVD-RW, DVD±RW) IBM Simple Backup (DVD-RW, DVD±RW) Downloadable	
Architecture PC Card Std slo	Intel 855PM chipset / 82855PM 82801DBM ICH4-M I/O Controll Low Pin Count [LPC] interface, I PCI4520A CardBus and 1394 ct (security chip; PC87392 Super I.	er Hub (ATA-100 EI JSB, [Bluetooth]) / F ontroller, Mini PCI, e ⁄O for parallel, infrar	DE, PCI bus, ethernet PCI bus 2.2 32-bit, 33M external expansion) / LF ed, [docking-based po	IHz (TI® PC bus 33MHz rts])	IBM Director Agent Software Delivery Assistant System Migration Assistant Client Security Software (for security chip) License (CD not included)	
Ports	Two USB (Version 2.0) / paralle RJ-11 (modem) / RJ-45 (ethern	el / external monitor et) / no keyboard or	(DB-15) / infrared (4M r mouse or serial port	lbps) /	- Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client	
Video out IEEE 1394 Wireless antenn Mini PCI Intel 11b/g³² CDC Modem Bluetooth Ethernet Audio support	One Mini PCI type III slot (Comi 11b/g Wi-Fi ³² wireless ⁴ , Mini PC One Communications Daughter 56K ⁶ V.90 (V.92-designed ²⁹) mo None standard Gigabit Ethernet on planar / Inte Soft audio / ICH AC97 controlle stereo speakers / 1 watt / volum microphone input jack (3.5 mm)	n connector / 1394a o the display cover f munications Bay) / o I, Intel PRO/Wireles Card (CDC) socket dem in CDC / Cone: I 82540EP chipset (i r / DirectSound® su le up, down, mute b / headphone jack (i	a-2000 standard or optimal wireless sig customer upgradable is 2200BG, Intel 82532 (used by modem) / no xant® chipset MAC/PHY) / Wake on I pport / AD1981B AC9 outtons / internal micro (3.5 mm) / no line in jac	Universal 72 watt AC adapter Asset ID™.34 (system-specific info in chip accessed over network) PC 2001 and PXE 2.0-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant IBM ImageUltra™ Services available International Warranty Service¹¹² 24 hour x 7 day¹¹³ toll-free hardware support during the warranty¹² via 800-IBM-SERV (426-7378)		
Security Security chip Limited warranty		system 2.0 ³³ / hardy tion / enhances VP onsite service, 8 ar	ware key storage / mul N security¹6 / TCG-cor m - 5 pm, Mon - Fri cov	ti-factor npliant	Post-warranty annual maintenance agreements at ibm.com/services/its/us/source/maspspleu.pdf	
256 MB PC270 512 MB PC2700 I Second HDD A CD-RW/DVD C Multi-Burner P IBM USB Porta IBM USB 2.0 C IBM USB 2.0 P 40GB HS Hard 80GB HS Hard	excluding holidays, next busines 0 DDR-SDRAM CL2.5 SOD 31P98 0 DDR-SDRAM CL2.5 SOD 31P98 0 DDR-SDRAM CL2.5 SOD 31P98 0 DDR-SDRAM CL2.5 SOD 31P98 0 DDR-SDRAM CL2.5 SOD 31P98 0 DDR-SDRAM CL2.5 SOD 31P98 0 DR-SDRAM CL2.5 SOD 31P98 0 STP SOD	T40/R50 Serie T40/R50 High T40/R50 High Ultrabay Slim I Intel PRO/Wire IBM 11a/b/g W IBM 11a/b/g W ThinkPad 72W IBM M400 Pro ThinkPad Port 63 ThinkPad Mini ThinkPad Doc Other options a	es Li-Ion Battery 6-cell Capacity Li-Ion Batt 9- Li-Polymer Battery 3-celess 2200BG Mini PC /ireless Mini PCI Adap /ireless CardBus Adap / AC/DC Combo Adap jector Replicator II Dock	ell 08K8190 1 73P2801 ter II 73P4301 ter 31P9101 ter 22P9010 0037A04 74P6733 287810U 287710U essories	These educational models of the ThinkPad notebook are available only to public or private K-12 (or higher) accredited schools organized and operated exclusively for educational purposes for use by qualified students and teachers. This model for education is for sale direct from IBM or through an Authorized Education Reseller. The model or models for education are not available for resale to any other organization or individual.	

	Mini DCI CDC	Ethornot IEEE Workhorso (M)				
Type-model Pro	Speed Graphics Disk Comm Bay modem/ ocessor GHz Memory Screen controller GB® Optical wireless Bluetooth	Ethernet IEEE Workhorse (W) on 1394 Security Global (G) Avail planar port chip Entry (E) date				
1836-Q3U Pentiur 1836-Q4U Pentiur 1836-Q5U Pentiur 1836-Q6U Pentiur 1836-Q7U Pentiur	m® M 725 1.6 256MB 14.1" XGA 7500 40GB Combo	10/100 Yes No Sep 2004 Gigabit 1394 Yes No Sep 2004 10/100 Yes No Sep 2004 Gigabit 1394 Yes No Sep 2004 Gigabit 1394 Yes No Sep 2004 Gigabit 1394 Yes No Sep 2004				
Positioning	Mainstream performance and features; two-spindle system	SOFTWARE ¹⁴				
Processor L2 cache Memory	Intel® Pentium® M Processor 725 (1.6GHz) or 735 (1.7GHz) with enhanced Intel SpeedStep™ technology¹ and 400MHz system bus 2MB / on die (at processor speed) / ECC 256 or 512MB std / 2GB max⁻ / PC2700 333MHz DDR1 (DDR-SDRAM) / non-parity / CL2.5 / two 200-pin SO-DIMM sockets / std memory in one socket / one socket available	Windows XP Professional - Microsoft® Windows® XP Professional ²⁰ ⇒ Disk-to-Disk Recovery				
Diskette drive Combo DVD±RW	None standard / use optional USB-based diskette drive Some: DVD-ROM/CD-RW / 24X/24X/24X/8X ²¹ speed / removable from Ultrabay Enhan Some: DVD and CD burner / Multi-Burner Plus / removable from Ultrabay Enhanced	(in hidden protected area) Preloaded Access IBM				
Ultrabay Enhanced Disk	d One modular bay for interchangeable devices / Ultrabay Slim-compatible / 12.7 mm high 40GB8 (4200 rpm), 60GB (4200 rpm), or 80GB (4200 rpm) / 9.5mm high / removable and upgradable / 9.5mm high bay / supports 2nd disk with optional 'Second HDD Adapter for Ultrabay Slim' / IBM Hard Disk Drive Shock Absorber / IBM Active Protection System	Access Connections IBM Rescue and Recovery™ Norton AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities				
Display	Some: 14.1" (358.1mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 200 nits Some: 15.0" (381.0mm) SXGA+ (1400x1050) TFT color / Active Matrix / 200 nits / FlexView display with wide viewing angle and high density using IPS technology	 Adobe Reader IBM Update Connector™.15 IBM RecordNOW and Drive Letter Access powered by Sonic products (combo, DVD±RW) 				
Graphics external	Some: ATI® Mobility™ RADEON™ 7500 / AGP 4X / 32MB DDR1 (DDR-SDRAM) Some: ATIMobility RADEON 9000 / AGP 4X / 32MB DDR1 (DDR-SDRAM) External monitor support via analog DB-15 connector / up to 1600x1200 at 85Hz / DDC2B	 İnterVideo WinDVD (combo, DVD±RW) InterVideo WinDVD Creator 				
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Acss IBM button / palm rest / pitch: 19mm; stroke: 2.7mm (std-size keys) TrackPoint® pointing device, "Press-to-Select," Internet Scroll Bar¹³, magnifying glass UltraNav™ multi-pointing system / touch pad below keyboard / Tap Zones Illuminates the keyboard to improve visibility in low-light conditions	(DVD±RW) • IBM Simple Backup (DVD±RW) Downloadable • IBM Director Agent				
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models (WxDxH): 12.4" x 10.2" x 1.35-1.46"; 314mm x 260mm x 34-37mm 15.0" models (WxDxH): 13.1" x 10.6" x 1.47-1.58"; 332mm x 269mm x 37-40mm with optical drive and battery: 14.1" models: 6.0 lb (2.7kg); 15.0" models: 6.6 lb (3.0kg) Color: black; All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium Ion 6-cell / intelligent / supports unique 2nd battery in Ultrabay Enhanced Models with SXGA+: up to 3.7 hr; Others: up to 4.0 hr; Optional 9-cell: up to 6.2 hr	Software Delivery Assistant System Migration Assistant Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and				
Architecture PC Card Std slots Ports	Intel 855PM chipset / 82855PM Memory Controller Hub (MCH-M) / 82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, Low Pin Count [LPC] interface, USB, [Bluetooth]) / PCI bus 2.2 32-bit, 33MHz (TI® PCI4520A CardBus and 1394 controller, Mini PCI, external expansion) / LPC bus 33MHz (security chip; PC87392 Super I/O for parallel, infrared, [docking-based ports]) One Type II, or one Type III / CardBus 32-bit / PCMCIA 2.1 / integrated door Two USB (Version 2.0) / parallel / external monitor (DB-15) / infrared (4Mbps) / RJ-45 (ethernet) / no keyboard or mouse or serial port	Lotus Notes® Stand-alone Client ThinkPad notebooks implement IBM ThinkVantage™ technologies and				
Video out IEEE 1394 Wireless antenna Mini PCI Intel 11b/g ³² IBM 11a/b/g II ³² CDC Modem Bluetooth Ethernet	S-video out port (TV out) / one 4-pin industry standard connector <i>Some:</i> IEEE 1394 (FireWire) port / 4-pin connector / 1394a-2000 standard UltraConnect™ Antenna built into the display cover for optimal wireless signal reception One Mini PCI type III slot (Communications Bay) / customer upgradable <i>Some:</i> 11b/g Wi-Fi³²² wireless⁴, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chipset <i>Some:</i> 11a/b/g wireless⁴, IBM 11a/b/g Mini PCI Adapter II, Atheros™ AR5004X chipset One Communications Daughter Card (CDC) socket (used by modem) / not accessible 56K⁵ V.90 (V.92-designed²³) modem in CDC / Conexant® chipset <i>Some:</i> Bluetooth wireless technology / in CDC (with modem) <i>Some:</i> 10/100 ethernet on planar / Intel 82562EZ chipset (physical layer) / Wake on LAN® <i>Some:</i> Gigabit Ethernet on planar / Intel 82540EP chipset (MAC/PHY) / Wake on LAN Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / stereo speakers / 1 watt / volume up, down, mute buttons / internal microphone / microphone input jack (3.5 mm) / headphone jack (3.5 mm) / no line in jack	ThinkVantage™ technologies and design; visit ibm.com/thinkvantage Universal 72 watt AC adapter Asset ID™.3⁴ (system-specific info in chip accessed over network) PC 2001 and PXE 2.0-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant ENERGY STAR®-compliant IBM ImageUltra™ Services available International Warranty Service¹¹ 24 hour x 7 day¹¹8 toll-free warranty support during the warranty¹²				
Security Security chip	Power-on password / hard disk password / supervisor password / security keyhole IBM Embedded Security Subsystem 2.0 ³³ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security ¹⁶ / TCG-compliant	ServicePac®.22 1yr IOR 9x5 NBD 30L9188 ServicePac 2 yr IOR 9x5 NBD 30L9189				
Limited warranty ¹²	1 year - EasyServ ^{TM,19} onsite pickup and delivery / service upgrades ²² available	ServicePac 3 yr IOR 9x5 NBD 30L9195				
256 MB PC2700 E 512 MB PC2700 DI 1GB PC2700 DDI Second HDD Ada CD-RW/DVD Cor Multi-Burner Plus IBM USB Portable IBM USB 2.0 Com IBM USB 2.0 Port 40GB HS Hard Di		ServicePac 4 yr IOR 9x5 NBD 30L9194 ServicePac 5 yr IOR 9x5 NBD 30L9196 ServicePac 2 yr P&L P/U Depot 30L9191 ServicePac 3 yr P&L P/U Depot 30L9192 ServicePac 4 yr P&L P/U Depot 69P9195 ServicePac 5 yr P&L P/U Depot 69P9197				
Con factorities	prortant warranty information	(R51RS) @ IRM Corp. September 200				

Special Processor Sht Memory Screen GB Optical wireless graphics planar port chipPreload Entry Special State Special													
2887.FAU Celeron M 3.1 128MB 16.07 XOA 200B CD Open; wireless upg Extreme 2 10/100 No Yes XP Home 1yr Dec 200 2887.FAU Celeron M 3.01 12.08MB 14.17 XOA 300B CD Open; wireless upg Extreme 2 10/100 No Yes XP Home 1yr Dec 200 2887.FAU Celeron M 3.01 12.08MB 14.17 XOA 300B CD Open; wireless upg Extreme 2 10/100 No Yes XP Home 1yr Dec 200 2887.FAU Celeron M 3.01 12.08MB 15.07 XOA 300B CD Open; wireless upg Extreme 2 10/100 No Yes XP Home 1yr Dec 200 2887.FAU Pentium M 1.1 12.08MB 15.07 XOA 300B CD Open; wireless upg Extreme 2 10/100 No Yes XP Home 1yr Dec 200 2887.FAU Pentium M 1.1 12.08MB 15.07 XOA 300B CD Open; wireless upg Extreme 2 10/100 No Yes XP Home 1yr Dec 200 2887.FAU Pentium M 1.1 12.08MB 14.17 XOA 300B CD Open; wireless upg Extreme 2 10/100 No Yes XP Home 1yr Dec 200 2887.FAU Pentium M 1.1 12.08MB 14.17 XOA 300B CD Open; wireless upg Extreme 2 10/100 No Yes XP Home 1yr Dec 200 2887.FAU Pentium M 1.1 12.08MB 14.17 XOA 300B CD Open; wireless upg Extreme 2 10/100 No Yes XP Home 1yr Dec 200 2887.FAU Pentium M 1.1 12.08MB 14.17 XOA 300B CD Open; wireless upg Extreme 2 10/100 No Yes XP Home 1yr Dec 200 2887.FAU Pentium M 1.1 12.08MB 14.17 XOA 300B CD Open; wireless upg Extreme 2 10/100 No Yes XP Home 1yr Dec 200 2887.FAU Pentium M 1.1 12.08MB 14.17 XOA 300B CD Open; wireless upg Extreme 2 10/100 No Yes XP Home 1yr Dec 200 10/100 No Yes XP Home 1yr Dec 200 No	Type-model Proce			Comm Bay	Integrated on	1394 rity warranty ¹² Global (G) Ávai							
Processor Intel® Celerion M Processor 1.30Hz or 330 (1.46Hz), 340 (1.56Hz) with 400MHz bus or finel Pentium M Processor 710 (1.46Hz) and 715 (1.56Hz) with enhanced intel SpeedSiep® technology® and 400MHz bystem bus 715 (1.56Hz) with enhanced intel SpeedSiep® technology® and 400MHz bystem bus 715 (1.56Hz) with enhanced intel SpeedSiep® technology® and 400MHz bystem bus 715 (1.56Hz) with enhanced intel SpeedSiep® technology® and 400MHz bystem bus 715 (1.56Hz) with enhanced 20 (1.	 2887-67U Celero 2887-EXU Celero 2887-GWU Celero 2887-E3U Celero 2887-GAU Celero 2887-2KU Pentiu 2887-2LU Pentiu 2887-8PU Pentiu 2887-P2U Pentiu 2887-P2U Pentiu 	2887-67U Celeron M 1.3 128MB 15.0" XGA 20GB CD Open; wireless upg 2887-67U Celeron M 330 1.4 256MB 14.1" XGA 30GB CD Open; wireless upg 2887-67U Celeron M 330 1.4 256MB 15.0" XGA 30GB CD Open; wireless upg 2887-67U Celeron M 340 1.5 256MB 14.1" XGA 30GB CD Open; wireless upg 2887-67U Celeron M 340 1.5 256MB 15.0" XGA 30GB CD Open; wireless upg 2887-27U Pentium M 1.5 128MB 14.1" XGA 20GB CD Wintel 11b/g Wi-Fi 2887-27U Pentium M 715 1.5 128MB 14.1" XGA 20GB CD Wintel 11b/g Wi-Fi 2887-87U Pentium M 715 1.5 128MB 15.0" XGA 20GB CD Wintel 11b/g Wi-Fi 2887-77U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-77U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-77U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-77U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-77U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-77U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-77U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-77U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-77U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-77U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-77U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-77U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-77U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-77U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-77U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-77U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-87U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-87U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-87U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-87U Pentium M 710 1.4 256MB 15.0" XGA 40GB Combo Wintel 11b/g Wi-Fi 2887-87U Pentium M 710 1.4 256MB 1											
Intel Pentium M Processor 1.5GHz or Intel Pentium M Processor 710 (1.4GHz) or 715 (1.4GHz) or 715 (1.4GHz) or 715 (1.4GHz) or 715 (1.4GHz) with enhanced tell tells [Speed15ter]) technology and 400MHz system bus Memory (1.4GHz) or 715 (1.4					with 400MHz have or	SOFTWARE ¹⁴							
CD Some: CD-ROM/C2-RW/24/24/24/24/24/24/24/24/24/24/24/24/24/	L2 cache Memory	Intel Pentium M Proces 715 (1.5GHz) with enha Celeron M: 512KB; Per 128 or 256MB std / 2GE CL2.5 / two 200-pin SO	ssor 1.5GHz or Intel Penced Intel SpeedStep antium M: 1MB; Pentium B max ⁷ / PC2700 333M -DIMM sockets / std m	entium M Processor 7 technology¹ and 400N M 710/715: 2 MB; All: Hz DDR1 (DDR-SDRA emory in one socket / c	10 (1.4GHz) or MHz system bus ECC M) / non-parity /	- Microsoft [®] Windows [®] XP Home Edition ²⁰ ⇒ Disk-to-Disk Recovery							
Some: 15.0 ° (381.0 mm) XGA (1024x768) TFT color / Active Matrix / 200 nits Integrated Intel Extreme "o repairs 2 / in 856GME GMCH / sues main memory (up to 64MB) / 250MC Graphics external monitor support via analog DB-15 connector / up to 1600x1200 at 85Hz / DDC2B Reyboard Track/Point* TrackPoint* pointing device, "Press-to-Select," internet Scroll Bar* ", magnifying glass UltraNav* multi-pointing system? (ucoth pad below keyboard / Tap Zones 14.1 "mackPoint* pointing device, "Press-to-Select," internet Scroll Bar* ", magnifying glass UltraNav* multi-pointing system? (ucoth pad below keyboard / Tap Zones 14.1 "mackPoint* pointing device, "Press-to-Select," internet Scroll Bar* ", magnifying glass UltraNav* multi-pointing system? (ucoth pad below keyboard / Tap Zones 14.1 "mackPoint* pointing device, "Press-to-Select," internet Scroll Bar* ", magnifying glass UltraNav* multi-pointing system? (ucoth pad below keyboard / Tap Zones 14.1 "mackPoint* pointing device, "Press-to-Select," internet Scroll Bar* ", magnifying glass 14.1 "mackPoint* pointing device, "Press-to-Select," internet Scroll Bar* ", magnifying glass 14.1 "mackPoint* pointing device, "Press-to-Select," internet Scroll Bar* ", magnifying glass 14.1 "mackPoint* pointing device, "Press-to-Select," internet Scroll Bar* ", magnifying glass 14.1 "mackPoint* pointing device, "Press-to-Select," internet Scroll Bar* ", magnifying glass 14.1 "mackPoint* pointing device, "Press-to-Select," internet Scroll Bar* ", magnifying glass 14.1 "mackPoint* pointing device, "Press-to-Select," internet Scroll Bar* ", magnifying glass 14.1 "mackPoint* pointing device, "Press-to-Select," internet Scroll Bar* ", magnifying glass 14.1 "mackPoint* pointing device, "Press-to-Select," internet Scroll Bar* ", magnifying glass 14.1 "mackPoint* pointing device, "Press-to-Select," internet Scroll Bar* ", magnifying glass 14.1 "mackPoint* pointing device, "Press-to-Select," internet Scroll Bar* ", magnifying glass 14.1 "mackPoint* 14.1 "mack	CD Combo Ultrabay Enhanced	Some: CD-ROM / 24X- Some: DVD-ROM/CD- I One modular bay for inte 20GB ⁸ , 30GB, or 40GB 9.5mm high bay / suppo	om Ultrabay Enhan ble / 12.7 mm high radable / er for Ultrabay Slim' /	- Microsoft Windows XP Professional ²⁰ (Service Pack 2)									
Integrated Intel Extreme" Graphics 2 / in 855GME GMCH uses main memory (up to 660MHz uses main memory (up to 64MB) / 250MHz uses main main memory (up to 64MBz up to	Display	Some: 14.1 " (358.1mm Some: 15.0 " (381.0mm	150 nits 200 nits	 Access Connections 									
TrackPoint*® pointing device, "Press-to-Select." Internet Scroll Bar¹s", magnifying glass buttery and brive Letter Access powered by Sonic production of the Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black: All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Colo		Integrated Intel Extrer uses main memory (up		 Norton AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities 									
InterVideo Windows InterVi	TráckPoint® Touch pad	TrackPoint®pointing de UltraNav™ multi-pointir	nagnifying glass	IBM Update Connector ^{TM,15} IBM RecordNOW and Drive Letter Access powered by Sonic product									
### Security Chip Continue of the Company of th	Weight ² Case material Battery - type	15.0" models (WxDxH): with optical drive and ba Color: black; All: Acry Lithium Ion 6-cell / intell Celeron M models: up t	37-40mm s: 6.6 lb (3.0kg)	ÎnterVideo WinDVD (combo) Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant Client Security Software (for									
Video out IEEE 1394 Some: IEEE 1394 (FireWire) port /4-pin industry standard connector Wireless antenna Mini PCI Wireless upg³a (Intel 11b/g²² CDC Modem Ethernet Some: 10/100 ethernet on planar / Intel 82562EZ chipset (Doys. catero speakers / 1 watt / volume up, down, mute buttons / internal microphone / stereo speakers / 1 watt / volume up, down, mute buttons / internal microphone input jack (3.5 mm) / headphone jack (3.5 mm) / no line in jack Power-on password / hard disk password / security keyhole IBM Embedded Security Subsystem 2.0³3 / hardware key storage / TCG-compliant Limited warranty¹² 1 year - EasyServ™in³ onsite pickup and delivery / service upgradable 128 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9830 13GB PC2700 DDR-SDRAM CL2.5 SOD 31P9830 1740/RS0 High Capach Multi-Burner Plus Ultrabay Slim Drive CD-RWIVD Combo Ultrabay Slim Drive CD-RWIVD Combo Ultrabay Enhanced Drive 73P3312 IBM 1USB Portable Diskette Drive 252 P3163 ThinkPad Dotok III 128 MUSB Portable Diskette Drive 252 P3163 ThinkPad Dotok III 128 MUSB Portable Diskette Drive 252 P3163 ThinkPad Dotok III 128 ThinkVantage™ technologies and design vale control / 3944-2000 standard UltraOnnect™ Antenna built into the display cover for optimal wireless signal reception One Mini PCI ypga (Communications Bay) / customer upgradable Universal 72 watt AC adapter asset ID™34 (system-specific info in chip accessed over network) PC 2001 and PXE 2.0-compliant CIM and DMI 2.0-compliant ENERGY STAR®-compliant CIM and DMI 2.0-compliant ENERGY STAR®-compliant ENERGY STAR®-compliant CIM and DMI 2.0-compliant ENERGY STAR®-compliant CIM and DMI 2.0-compliant ENERGY STAR®-compliant Service savailable International Warranty Services available International Warranty Service available International Warranty	PC Card Std slots	82801DBM ICH4-M I/O Low Pin Count [LPC] int and 1394 controller, Mir PC87392 Super I/O for p One Type I, one Type II Two USB (Version 2.0)	Controller Hub (ATA-10 erface, USB) / PCI bus ii PCI, external expansi carallel, infrared, [dockii o, or one Type III / Card / parallel / external mo	00 EIDE, PCI bus, ether 2.2 32-bit, 33MHz (TI® on) / LPC bus 33MHz (s ng-based ports]) Bus 32-bit / PCMCIA 2 nitor (DB-15) / infrared	rnet MAC, PCI4510 CardBus security chip; 1 / integrated door (4Mbps) /	License (CD not included) - Lotus® SmartSuite® Millennium a Lotus Notes® Stand-alone Client							
Mini PCI Wireless upgs Mini PCI type III slot (Communications Bay) / customer upgradable Some: wireless upgradable with wireless Mini PCI options Some: upgradable with wireless Mini PCI options Some: 11b/g Wi-Fi ²² wireless ⁴ , Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chipset CDC One Communications Daughter Card (CDC) socket (used by modem) / not accessible Some: 10/100 ethernet on planar / Intel 82562EZ chipset (physical layer) / Wake on LAN Some: Gigabit Ethernet on planar / Intel 82540EP chipset (MAC/PHY) / Wake on LAN Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / stereo speakers / 1 watt / volume up, down, mute buttons / internal microphone /	IEEE 1394	S-video out port (TV ou Some: IEEE 1394 (Fire	t) / one 4-pin industry s Wire) port / 4-pin conn	tandard connector ector / 1394a-2000 sta	ndard								
Security Chip Brower-on password / hard disk password / supervisor password / security keyhole IBM Embedded Security Subsystem 2.0 ³³ / hardware key storage / TCG-compliant Limited warranty ¹² 1 year - EasyServ ^{™.19} onsite pickup and delivery / service upgrades ²² available 128 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9828 256 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9830 1GB	Mini PCI Wireless upg ³⁶ Intel 11b/g ³² CDC Modem Ethernet	One Mini PCI type III slo Some: wireless upgrad Some: 11b/g Wi-Fi ³² wi One Communications D 56K ⁶ V.90 (V.92-design Some: 10/100 ethernet Some: Gigabit Ethernet Soft audio / ICH AC97 of	ble , Intel 82532 chipset / not accessible er) / Wake on LAN® / Wake on LAN AC97 codec /	Asset ID ^{TM,34} (system-specific info in chip accessed over network) PC 2001 and PXE 2.0-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant ENERGY STAR®-compliant IBM ImageUltra TM Services available									
128 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9828 256 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9830 1GB PC2700 DDR-SDRAM CL2.5 SOD 31P9830 1GB PC2700 DDR-SDRAM CL2.5 SOD 31P9834 Second HDD Adapter for Ultrabay Slim 62P4554 ThinkPad Multiple Battery Charger II 1hinkPad DVD-ROM Ultrabay Slim Drive 73P3270 CD-RW/DVD Combo Ultrabay Enhanced Drive 73P3312 ThinkPad Port Replicator II 74P6733 1BM USB Portable Diskette Drive 05K9276 1BM USB 2.0 Portable Multi-Burner Drive 22P9163 1P9828 31P9834 1BM USB 2.0 Portable Multi-Burner Drive 22P9163 1P9828 31P9834 22P9163 31P9834 30L9199 30L		microphone input jack (Power-on password / h	n jaċk curity keyhole	24 hour x 7 day ¹⁸ toll-free warranty support during the warranty ¹² via 800-IBM-SERV (426-7378)									
256 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9830 T40/R50 High Capacity Li-Ion Batt 9-cell 08K8197 ServicePac 5 yr IOR 9x5 NBD 19832 Ultrabay Slim Li-Polymer Battery 3-cell 08K8190 ServicePac 5 yr IOR 9x5 NBD 1				30L9188									
Second HDD Adapter for Ultrabay Slim ThinkPad DVD-ROM Ultrabay Slim Drive CD-RW/DVD Combo Ultrabay Enhanced Multi-Burner Plus Ultrabay Enhanced Drive IBM 11a/b/g Wireless Mini PCI Adapter II T3P4301 ThinkPad Port Replicator II ThinkPad Mini Dock IBM USB 2.0 Portable Multi-Burner Drive ServicePac 3 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ThinkPad Port Replicator II ThinkPad Mini Dock 22P9163 ThinkPad Mini Dock ITMINEPAD Mini PCI TAP4301 ThinkPad Port Replicator II ThinkPad Mini Dock 287710U ThinkPad Dock II ServicePac 3 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919 ServicePac 5 yr P&L P/U Depot 30L919	256 MB PC2700 I 512 MB PC2700 I	DDR-SDRAM CL2.5 SOI DDR-SDRAM CL2.5 SOI	0 31P9830 T40/R50 0 31P9832 Ultrabay 9	High Capacity Li-Ion Ba Slim Li-Polymer Battery	att 9-cell 08K8197 / 3-cell 08K8190	30L9195 ServicePac 5 yr IOR 9x5 NBD							
CD-RW/DVD Combo Ultrabaý Enhanced Multi-Burner Plus Ultrabay Enhanced Drive 73P3312 IBM 11a/b/g Wireless CardBus Adapter Multi-Burner Plus Ultrabay Enhanced Drive 73P3312 ThinkPad Port Replicator II 74P6733 ServicePac 5 yr P&L P/U Depot 74P6733 G9P919 Other ServicePac options at 18M USB 2.0 Portable Multi-Burner Drive 22P9163 ThinkPad Mini Dock 1 287710U ServicePac 5 yr P&L P/U Depot 74P6733 Other ServicePac 5 yr P&L	Second HDD Ada	pter for Ultrabay Slim	62P4554 Intel PRO	/Wireless 2200BG Min	i PCI 73P2801	ServicePac 3 yr P&L P/U Depot							
IBM USB Portable Diskette Drive 05K9276 ThinkPad Mini Dock 287810U Other ServicePac options at 1BM USB 2.0 Portable Multi-Burner Drive 22P9163 ThinkPad Dock II 287710U ibm.com/services/its/us/source	CD-RW/DVD Cor	nbo Ultrabay Enhanced	73P3275 IBM 11a/b	o/g Wireless CardBus A	Adapter 31P9101								
	IBM USB Portable IBM USB 2.0 Port	e Diskette Drive able Multi-Burner Drive	05K9276 ThinkPad 22P9163 ThinkPad	Mini Dock Dock II	287810U 287710U	Other ServicePac options at ibm.com/services/its/us/source							

See footnotes for important warranty information

* Powered by Intel Centrino™ mobile technology (2887) © IBM Corp. December 2004

© US models announced November 30 and December 21, 2004; previous models on April 6, July 13, or September 14, 2004

CUS models withdrawn effective January 2005

			Mini DCI	Eth aun	-4 IEEE	1 :	tod Moulth	(M)					
Type-model Pro	Speed cessor GHz Memory Screen	Disk GB [®] Optical		CDC on modem plana			Entr	al (G) Avail y (E) date					
2888-4AU Pentiur 2888-47U Pentiur 2888-5RU Pentiur 2888-6AU Pentiur 2888-6AU Pentiur 2888-69U Pentiur 2888-7JU Pentiur 2888-BQU Pentiur	n M 1.5 256MB 14.1" XGA n M 1.6 256MB 14.1" XGA n M 1.6 256MB 14.1" XGA n M 1.6 256MB 15.0" XGA n M 1.6 256MB 15.0" XGA n M 1.6 256MB 15.0" XGA	20GB DVD (40GB Combo * I 30GB DVD I 30GB DVD I 30GB CD * I 30GB DVD (40GB Combo * I	IBM 11b/g ³² IBM 11b/g Intel 11b/g Wi-Fi Open; wireless upg Intel 11b/g Wi-Fi	Mod Gigal Mod 10/10 Mod 10/10 Mod 10/10 Mod Gigal	00 No bit Yes 00 No 00 No 00 No 00 No bit Yes	Yes XP Pro Yes XP Pro Yes XP Pro Yes XP Pro Yes XP Pro Yes XP Pro Yes XP Pro Yes XP Pro Yes XP Pro Yes XP Pro	3 yr W (3 yr W 3 yr W 3 yr W 3 yr W 3 yr W 3 yr W 3 yr W 3 yr W	Apr 2004 Apr 2004 Apr 2004 Apr 2004 Apr 2004 Apr 2004 Apr 2004 July 2004					
Positioning Processor	Mainstream performance and fe			20000 725		s	OFTWARE	14					
L2 cache Memory	(1.6GHz) with enhanced Intel S Pentium M: 1MB; Pentium M 7. 256MB std / 2GB max ⁷ / PC270 two 200-pin SO-DIMM sockets	peedStep™ techn 25: 2MB: All: on o 00 333MHz DDR1 / std memory in o	L2.5/	Windows XP F - Microsoft® W Professional									
Diskette drive CD DVD Combo Ultrabay Enhanced Disk	None standard / use optional U Some: CD-ROM / 24X-10X° sp Some: DVD-ROM / 8X-3.3X° s Some: DVD-ROM/CD-RW / 24 I One modular bay for interchang 20GB°, 30GB, or 40GB (4200 rp 9.5mm high bay / supports 2nd IBM Hard Disk Drive Shock Al	n high	 IBM Rescue and Recovery™ Norton AntiVirus (OEM edition) 										
Display	Some: 14.1" (358.1mm) XGA (Some: 15.0" (381.0mm) XGA (Adobe ReadeIBM Update 0	er Connector™									
Graphics	Integrated Intel Extreme™ Gruses main memory (up to 64MB		IBM Records Access power (combo mode)	ered by Sor									
Graphics external Keyboard TrackPoint® Touch pad ThinkLight™	External monitor support via ana 87-key / Access IBM button / p: TrackPoint® pointing device, "P UltraNav™ multi-pointing syste Illuminates the keyboard to imp	alog DB-15 connec alm rest / pitch: 19 ress-to-Select," In m / touch pad belo	Omm; stroke: 2.7mm aternet Scroll Bar ¹³ , r bw keyboard / Tap Z	n (std-size ke magnifying g	eys)	 (combo models) InterVideo WinDVD (combo, DVD models) Downloadable IBM Director Agent Software Delivery Assistant 							
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models (WxDxH): 12.4" x 15.0" models (WxDxH): 13.1" x with optical drive and battery: 1color: black; All: Acrylonitrile-Lithium Ion 6-cell / intelligent / s Up to 4.7 hr; Optional High Cal	kg)	System Migration Assistant Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client										
Architecture PC Card Std slots Ports	Intel 855GME chipset / 828550 82801DBM ICH4-M I/O Controll Low Pin Count [LPC] interface, and 1394 controller, Mini PCI, PC87392 Super I/O for diskette, One Type I, one Type II, or one Two USB (Version 2.0) / paralle RJ-11 (modem) / RJ-45 (ethern	er Hub (ATÁ-100 l USB) / PCI bus 2.2 xternal expansion) parallel, infrared, Type III / CardBu el / external monito	EIDE, PCI bus, ether 2 32-bit, 33MHz (TI®) / LPC bus 33MHz ([docking-based port is 32-bit / PCMCIA 2 or (DB-15) / infrared	rnet MAC, PCI4510 Ca security chip s]) 2.1 / integrate (4Mbps) /	;	ThinkPad note ThinkVantage'design: visit ib	™ technoloo	gies and					
Video out IEEE 1394 Wireless antenna Mini PCI Wireless upg³6 Intel 11b/g³2 IBM 11b/g³2 CDC Modem Bluetooth Ethernet	RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mouse or serial port Video out IEEE 1394 Wireless antenna Wireless antenna Wireless upg³6 Intel 11b/g³² IBM 11b/g³² IBM 11b/g³² Some: IBM 11b/g Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chipset Some: IBM 11b/g Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chipset Some: IBM 11b/g Wi-Fi³² wireless⁴, Mini PCI, Atheros™ AR5004G chipset One Communications Daughter Card (CDC) socket (used by modem) / not accessible 56K⁵ V.90 (V.92-designed²³) modem in CDC / Conexant® chipset None												
Security Security chip	Soft audio / ICH AC97 controlle stereo speakers / 1 watt / volum microphone input jack (3.5 mm Power-on password / hard disk IBM Embedded Security Sub- authentication / local file encryp	le	ServicePac ^{®, 22} ServicePac 3 y ServicePac 4 y	r IOR 9x5 l	30L9190 NBD 30L9197 NBD								
Limited warranty ¹²	3 years/1 yr battery - EasyServ	² avail	ServicePac 5 y	r IOR 9x5 l	69P9198 NBD 69P9200								
128 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9828 256 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9830 1GB PC2700 DBR-SDRAM CL2.5 SOD 31P9830 1GB PC2700 D													

		Speed		Disk			Mini PCI	CDC	Ethernet on		Securit				se (W) I (G) Avail			
	ocessor	GHz Memory		GB ⁸	Optical	V	vireless	modem	planar	port	chip	Preload			(È) date			
2888-P9U Pentiu 2888-PAU Pentiu 2888-PBU Pentiu 2888-ESU Pentiu 2888-ETU Pentiu 2888-EUU Pentiu 2888-FMU Pentiu 2888-GRU Pentiu 2888-GSU Pentiu 2888-GSU Pentiu 2888-GTU Pentiu	Im M 715 Im M 715 Im M 735 Im M 735 Im M 735 Im M 735 Im M 735 Im M 735 Im M 735 Im M 735 Im M 735 Im M 735	ia 1.5 256MB ia 1.5 256MB ia 1.7 256MB ia 1.7 256MB ia 1.7 256MB ia 1.7 256MB ia 1.7 256MB ia 1.7 256MB ia 1.7 256MB ia 1.7 256MB ia 1.7 256MB	15.0" XGA 15.0" XGA 14.1" XGA 14.1" XGA 14.1" XGA 14.1" XGA 15.0" XGA 15.0" XGA 15.0" XGA 15.0" XGA	40GB 40GB 30GB 30GB 30GB 40GB 30GB 30GB 40GB	Combo * Combo * DVD * CD * DVD * Combo * CD * DVD DVD * Combo *	Intel Intel Intel Oper Intel Oper Intel In	11b/g Wi-Fi 11b/g Wi-Fi 11b/g Wi-Fi 11b/g Wi-Fi 1; wireless upg 11b/g Wi-Fi 1; wireless upg 11b/g Wi-Fi 11b/g Wi-Fi 11b/g Wi-Fi	Mod Mod Mod Mod Mod Mod Mod Mod Mod Mod	10/100 10/100 Gigabit 10/100 10/100 Gigabit 10/100 10/100 10/100 Gigabit	No Yes No No No Yes No No No	Yes Yes Yes Yes Yes Yes Yes Yes Yes	XP Pro XP Pro	3 yr 3 yr 3 yr 3 yr 3 yr 3 yr	W W W W W	Jan 2005 Jan 2005 Jan 2005 Sep 2004 Sep 2004 Sep 2004 Sep 2004 Sep 2004 Sep 2004 Sep 2004			
Positioning Processor		tream performa Pentium® M Pi)FTW					
L2 cache Memory	with er 2MB / 256MI two 20	nhanced Intel S on die (at proc B std / 2GB ma 00-pin SO-DIM	SpeedStep ^{TI} essor speed x ⁷ / PC270 M sockets /	techn) / ECC) 333M std me	ology¹ and C Hz DDR1 mory in or	400N (DDR ne soc	/IHz system bu -SDRAM) / no ket / one sock	n-parity		/	- Micro Profe - Pxx i	ws XP P psoft® Wi essional ²⁰ models of to-Disk F	ndows	® XP ervice				
Diskette drive CD DVD Combo Ultrabay Enhance Disk	Some: Some: Some: d One m 30GB ⁸ 9.5mm	standard / use : CD-ROM / 24 : DVD-ROM / 34 : DVD-ROM / 35 : DVD-ROM / 36 : DVD-ROM / 36	4X-10X ⁹ spe 8X-3.3X ⁹ sp D-RW / 24) Interchange 0 rpm), 9.5m Ports 2nd di	eed / re eed / re (/24X/2 able de nm high sk with	movable fremovable 24X/8X ²¹ sevices / Ult optional 'S	rom U from U peed / rabay ole and Secon	Itrabay Enhan JItrabay Enhar removable fro Slim-compatib d upgradable / d HDD Adapte	nced om Ultra le / 12.7 r for Ultr	mm hig	nan h m'/	(in hid Preloade • Acce • Acce • IBM I • Norto • PC-D	dden pro ded ss IBM ss Conno Rescue a on AntiVi Joctor™	ection and Re rus (O	area) s ecove	·у ^{тм}			
Display		14.1 " (358.1 ₁ 15.0 " (381.0 ₁									 Adob 	Pad Util e Reade	r		_			
Graphics Graphics external	Integrated Intel Extreme™ Graphics 2 / in 855GME GMCH / uses main memory (up to 64MB) / 250MHz ernal External monitor support via analog DB-15 connector / up to 1600x1200 at 85Hz / 87-key / Access IBM button / palm rest / pitch: 19mm; stroke: 2.7mm (std-size k										 IBM Update Connector^{TM.15} IBM RecordNOW and Drive Access powered by Sonic p 							
Keyboard TrackPoint® Touch pad ThinkLight™	Trackĺ UltraN	Point®pointing lav™ multi-poir	device, "Pre iting system	ess-to-: / toucl	Select," In n pad belo	ternet w key	Scroll Bar¹³, m board / Tap Zo	agnifyii			 (combo models) InterVideo WinDVD (combo, DVD models) Downloadable IBM Director Agent 							
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	 14.1" models (WxDxH): 12.4" x 10.2" x 1.35-1.46"; 314mm x 260mm x 34-37mm 15.0" models (WxDxH): 13.1" x 10.6" x 1.47-1.58"; 332mm x 269mm x 37-40mm with optical drive and battery: 14.1" models: 6.0 lb (2.7kg); 15.0" models: 6.6 lb (3.0kg) Color: black; All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Lithium lon 6-cell / intelligent / supports unique 2nd battery in Ultrabay Enhanced License License 									vare Deli em Migra t Securit rity chip) e (CD no	very A tion A y Soft ot inclu	ssista ware (ded)	nt					
Architecture PC Card Std slots	82801 Low P and 13 PC873	S55GME chipse DBM ICH4-M I in Count [LPC] 394 controller, I 392 Super I/O fo ype I, one Typ	O Controlle interface, U Mini PCI, ex or diskette, p	r Hub (SB) / P ernal e arallel	ATÁ-100 E CI bus 2.2 xpansion) , infrared, [EIDE, 32-bi / LPC dockir	PCI bus, etheri t, 33MHz (TI® F bus 33MHz (s ng-based ports	net MAC PCI4510 ecurity (])	CardBuchip;		Lotus Notes® Stand-alone Client ThinkPad notebooks implement IB ThinkVantage™ technologies and design; visit ibm.com/thinkvantage			e Client ment IBM es and				
Ports	Two U	ISB (Version 2)	.0) / parallel	/ exter	nal monito	or (DB-	-15) / infrared	(4Mbps)/		Univer	sal 72 wa	att AC	adap				
Video out IEEE 1394 Wireless antenna Mini PCI Wireless upg ³⁶ Intel 11b/g ³² CDC Modem Bluetooth Ethernet	RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mouse or serial port Video out IEEE 1394 Wireless antenna Mini PCI Wireless upg³6 Intel 11b/g³² CDC Modem Bluetooth RJ-45 (ethernet) / no keyboard or mouse or serial port S-video out port (TV out) / one 4-pin industry standard connector Some: IEEE 1394 (FireWire) port / 4-pin connector / 1394a-2000 standard UltraConnect™ Antenna built into the display cover for optimal wireless signal reception One Mini PCI type III slot (Communications Bay) / customer upgradable Some: wireless upgradable with wireless Mini PCI options Some: 11b/g Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chips One Communications Daughter Card (CDC) socket (used by modem) / not accessible None								set	chip PC 200 ACPI 1 CIM an ENERO IBM Im Interna 24 hou supp	accesse 11 and P .0b and 1 d DMI 2. GY STAF ageUltra tional W r x 7 day ort durin	d ove XE 2.0 2.0-co 0-com ₹®-cor TM Ser arrant 18 toll- g the	r netw D-com mplian nplian vices y Sen free w warra	rork) pliant nt t t available vice ¹⁷ varranty nty ¹²				
Audio support	Soft au stereo	Gigabit Etheri udio / ICH AC9 speakers / 1 v phone input jac	7 controller /att / volume	/ Direction / Dire	tSound® s own, mute	uppor buttor	t / AD1981B Á ns / internal mi	C97 coo	dec/			ePac ^{®, 22} ePac 3 yı	-		30L9190			
Security Security chip	Power IBM E	on password mbedded Sec	/ hard disk purity Subs	asswo ystem	ord / super 2.0 33 / hard	visor p dware	password / sec key storage /	úrity ke TCG-co	mpliant			Pac 4 yı			BD 69P9198			
Limited warranty ¹²		s/1 yr battery					•			A11		Pac 5 yı			69P9200			
128MB PC2700 256MB PC2700 512MB PC2700 1GB PC2700 DE Second HDD Ad CD-RW/DVD Co Multi-Burner Plu IBM USB Portab IBM USB 2.0 Por 80GB HS Hard E ThinkPad Carryi	DDR-SE DDR-SE DR-SDR Japter for Jombo Ultraba Jole Diske Trable Mu Disk 9.5m	DRAM CL2.5 S DRAM CL2.5 S AM CL2.5 SOI r Ultrabay Slim rabay Enhance ay Enhanced D tte Drive ulti-Burner Driv nm (5400 rpm)	OD 31P98 OD 31P98 O 31P98 62P45 ed 73P32 rive 73P33 05K92	30 T4 32 Ult 34 Int 54 IBI 75 IBI 12 Th 76 Th 63 Th 73 Th	O/R50 Hig rabay Slin el PRO/W M 11a/b/g M 11a/b/g inkPad 72 inkPad Mi inkPad Do	h Cap ireles: Wirele Wirele W AC ort Rep ni Doo ock II		att 9-cell 3-cell PCI dapter I dapter dapter	08K8 73P28 1 73P4 31P9 22P90 74P6 28781 28771	197 190 301 301 101 010 733 0U	Service Other S ibm wan Post-w agreen ibm	nomxeu.¡ arranty a nents at	P&L lac opt rvices odf innual	P/U D ions a /its/us main	69P9199 epot 69P9201 t /source/			
See footnotes for in				- 1	· ·		Centrino™ mob					• • •		orn Is	anuary 2005			

	Chand	Dial		Mini PCI	CDC	Intograted	IEEE Secu- Limited Workhorse (W)
	Speed cessor GHz Memory		Optical	Comm Bay wireless	CDC	graphics	1394 rity warranty ¹² Global (G)Avai port chip Preload Entry (E) date
2888-2WU Pentiun 2888-EWU Pentiun	1.3 256MB 14 1.4 340 1.5 256MB 14 1.5 256MB 14 1.5 256MB 14 1.6 256MB 14	.1" XGA 30G .1" XGA 30G .1" XGA 40G .1" XGA 40G	B CD B CD B Combo B Combo	Intel 11b/g Wi-Fi Intel 11b/g Wi-Fi * Intel 11b/g Wi-Fi * Intel 11b/g Wi-Fi	Modem Modem Modem Modem	Extreme 2 Extreme 2 Extreme 2 Extreme 2	No Yes 1 year XP Pro Educ Apr 04 No Yes 3 year XP Pro Educ Apr 04 No Yes 3 year XP Pro Educ Sep 04 No Yes 3 year XP Pro Educ Apr 04 No Yes 3 year XP Pro Educ Sep 04
• <i>The 2</i> These	1887 has an EasyServ 1888 has an EasyServ educational models of t s organized and operat	onsite pickup he ThinkPad	<i>o and deli\</i> notebook a	<i>very 3 year limited v</i> are available only to	<i>varranty</i> public or	private K-12	2 (or higher) accredited ents and teachers.
Positioning Processor L2 cache Memory	Mainstream performar Intel® Celeron M Proc Intel Pentium M Proc enhanced Intel Speed Celeron M: 512KB; Pl 256MB std / 2GB max	essor 1.3GHz essor 1.5GHz Step™ techno entium M 1.50	z or 340 (1. or Intel P ollogy ¹ and ² <i>GHz:</i> 1MB ;	. 5GHź) with 400MHz entium M Processo 400MHz system bus <i>Pentium M 725:</i> 2M	o r 725 (1. 0 B ; <i>All:</i> on	6GHz) with die / ECC	SOFTWARE ¹⁴ Windows XP Professional - Microsoft® Windows® XP Professional ²⁰ \$\times \text{Disk-to-Disk Recovery}
Diskette drive CD Combo Ultrabay Enhanced Disk	two 200-pin SO-DIMM None standard / use o Some: CD-ROM / 24/ Some: DVD-ROM/CI One modular bay for i 30GB [®] or 40GB (4200 9.5mm high bay / supp IBM Hard Disk Drive:	I sockets / std ptional USB-b K-10X ⁹ speed D-RW / 24X/2 ² terchangeable rpm), 9.5mm I orts 2nd disk v	memory ir rased diske / removabl X/24X/8X e devices / nigh / remo with option	n one socket / one so ette drive le from Ultrabay Enh 2¹ speed / removable Ultrabay Slim-compo vable and upgradab al 'Second HDD Ada	nanced e from Ult atible / 12 le / pter for U	ailable rabay Enha 2.7 mm high	IBM Rescue and Recovery™ Norton AntiVirus (OEM edition) PC-Doctor™ ThinkPad Utilities
Display	14.1" (358.1mm) XGA	,			nits		Adobe Reader IBM Update Connector ^{TM,15}
Graphics	Integrated Intel Extre uses main memory (u	o to 64MB) / 2	50MHz		200 -+ 05		 IBM RecordNOW and Drive Lette Access powered by Sonic produc
Graphics external Keyboard TrackPoint® Touch pad ThinkLight™	External monitor supposes 18M k 87-key / Access IBM k TrackPoint® pointing d UltraNav™ multi-point Illuminates the keyboa	outton / palm r evice, "Press- ing system / to	est / pitch: to-Select, ouch pad b	19mm; stroke: 2.7n Internet Scroll Bar¹ elow keyboard / Tap	nm (std-s ³, magnif Zones	ize keys)	(combo model) InterVideo WinDVD (combo model Downloadable IBM Director Agent Software Delivery Assistant
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models (WxDxH with optical drive and b Color: black; All: Acr Lithium Ion 6-cell / interceleron models: up to	attery: 6.0 lb (2 ylonitrile-Buta elligent / suppo	2.7kg) diene-Styr orts unique	rene (ABS) plastic 2nd battery in Ultrab	ay Enhan	ced	System Migration Assistant Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and
PC Card Std slots Ports Video out	Intel 855GME chipset 82801DBM ICH4-M I/C Low Pin Count [LPC] ii and 1394 controller, M PC87392 Super I/O for One Type I, one Type Two USB (Version 2.0 RJ-11 (modem) / RJ-4 S-video out port (TV o	O Controller Hoterface, USB ini PCI, extern diskette, para II, or one Typ) / parallel / ex 5 (ethernet) /	ub (ATÁ-10) / PCI bus al expansional expansional allel, infrare e III / Card kternal mon no keyboa	00 EIDE, PCI bus, etl 2.2 32-bit, 33MHz (T on) / LPC bus 33MH. d, [docking-based pr Bus 32-bit / PCMCI/ nitor (DB-15) / infrar ird or mouse or seria	hernet M/ T® PCI45 z (securit orts]) A 2.1 / int ed (4Mbp	10 CardBus y chip; egrated doo	
IEEE 1394	None UltraConnect™ Antenr One Mini PCI type III s Some: wireless upgra Some: 11b/g Wi-Fi³² w One Communications 56K° V.90 (V.92-desig	na built into the lot (Communi dable with wire vireless ⁴ , Mini Daughter Care	display co cations Ba eless Mini F PCI, Intel F d (CDC) so	over for optimal wirele ay) / customer upgra PCI options PRO/Wireless 2200B ocket (used by model	dable G, Intel 8	2532 chipse	Universal 72 watt AC adapter
Bluetooth Ethernet Audio support	None 10/100 ethernet on pla Soft audio / ICH AC97 stereo speakers / 1 ws microphone input jack Power-on password /	nar / Intel 825 controller / D att / volume up (3.5 mm) / he hard disk pass	62EZ chips rectSound , down, mi adphone j sword / sup	set (physical layer) / 1 support / AD1981 tute buttons / internal ack (3.5 mm) / no lin bervisor password /	B AC97 of I microph I e in jack security l	codec / one / keyhole	Asset ID™34 (system-specific info in chip accessed over network) PC 2001 and PXE 2.0-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant ENERGY STAR®-compliant IBM ImageUltra™ Services available
Security chip Limited warranty ¹²	authentication / local f 2887: 1 year - EasySe	le encryption	/ enhances	s VPN security16 / TO	CG-comp	liant	International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free warranty
-	2888: 3 years /1 yr ba	ttery - EasySe	erv onsite p	ickup and delivery /	srv upgra	ades ²² avail	support during the warranty ¹² via 800-IBM-SERV (426-7378)
256 MB PC2700 D 512 MB PC2700 DDF 1GB PC2700 DDF Second HDD Ada CD-RW/DVD Com		DD 31P9830 7 DD 31P9832 1 31P9834 62P4554 1 73P3275 1 Ve73P3312 4 09N4280 8	T40/R50 H Ultrabay SI ThinkPad N BM USB T Kensingtor 40GB HS F 80GB HS F		Batt 9-cell ry 3-cell rger II UltraNav rity Cable 00 rpm) 00 rpm)	08K8190 22P9040 v 31P9490	ServicePac options at ibm.com/services/us/its/pdf/wamomxeu.pdf Post-warranty annual maintenance agreements at ibm.com/services/us/its/pdf/maspspleu.pdf
IBM USB 2.0 Com	bo Drive able Multi-Burner Drive nory Key 512MB or	73P4515 I 22P9163 I 22P9230 O 0037A04	BM 11a/b/ BM 11a/b/ ThinkPad 7 ThinkPad 7	g Wireless Mini PCI g Wireless CardBus 72W AC Adapter 72W AC/DC Combo ns at ibm.com /pc/u	Adptr II Adapter Adapter	73P4301 31P9101 02K6699 22P9010	ThinkPad Port Replicator II 74P673 ThinkPad Mini Dock 287810 ThinkPad Dock II 287710 TrackPoint Cap Collection 73P269 ThinkPad Monitor Stand 2001 22P526

^{*} Powered by Intel Centrino™ mobile technology

	cessor GHz Memory Screen	Disk GB® Optical	Mini PCI Comm Bay wireless	modem	Integrated139 graphics po	rt chip Preload warranty ¹² Entry (E) date
2889-2WU Pentiu 2889-EWU Pentiu • The These schoo	n® M 1.3 256MB 14.1" XGA 30 n M 340 1.5 256MB 14.1" XGA 30 m® M 1.5 256MB 14.1" XGA 40 m M 7251.6 256MB 14.1" XGA 40 2889 has a limited onsite service ² educational models of the ThinkPa is organized and operated exclusive todel for education is for sale direct	GB CD GB Combo * GB Combo * 4 3 year limited d notebook are ely for education	Intel 11b/g Wi-Fi Intel 11b/g Wi-Fi Intel 11b/g Wi-Fi d warranty e available only to p onal purposes for u	Modem Modem Modem oublic or p se by qua	Extreme 2 Extreme 2 Extreme 2 orivate K-12 alified studer	its and teachers.
Positioning	Mainstream performance and feat					SOFTWARE ¹⁴
Processor L2 cache Memory	Intel® Celeron M Processor 1.3G Intel Pentium M Processor 1.5Gl enhanced Intel SpeedStep™ tech Celeron M: 512KB; Pentium M 1. 256MB std / 2GB max² / PC2700 two 200-pin SO-DIMM sockets / s	Hz or 340 (1.50) Hz or Intel Per hology ¹ and 40 5 <i>GHz:</i> 1MB ; <i>P</i> 333MHz DDR	GHz) with 400MHz ntium M Processo 00MHz system bus Pentium M 725: 2ME 1 (DDR-SDRAM) /	r 725 (1.6 3 ; <i>All:</i> on non-parit	GGHz) with die / ECC by / CL2.5 /	Windows XP Professional - Microsoft® Windows® XP Professional²0 \$\Delta\text{Disk-to-Disk Recovery} (in hidden protected area)
Diskette drive CD Combo Ultrabay Enhance Disk	None standard / use optional USE Some: CD-ROM / 24X-10X³ spec Some: DVD-ROM/CD-RW / 24X/ d One modular bay for interchangea 30GB³ or 40GB (4200 rpm), 9.5mr 9.5mm high bay / supports 2nd dis IBM Hard Disk Drive Shock Abse	-based diskett d / removable 24X/24X/8X ²¹ ble devices / U n high / remova k with optional	te drive from Ultrabay Enh speed / removable Itrabay Slim-compa able and upgradabl 'Second HDD Adap	anced from Ultr atible / 12. e / oter for Ul	abay Enhan 7 mm high	ThinkPad Utilities
Display	14.1" (358.1mm) XGA (1024x768	TFT color / A	ctive Matrix / 150 n	its		Adobe Reader IBM Update Connector ^{TM,15}
Graphics Graphics external	Integrated Intel Extreme™ Grap uses main memory (up to 64MB) / External monitor support via analo	250MHz		200 at 85I	Hz/DDC2B	IBM RecordNOW and Drive Letter Access powered by Sonic products (combo model)
Keyboard TrackPoint® Touch pad ThinkLight™	87-key / Access IBM button / paln TrackPoint® pointing device, "Pres UltraNav™ multi-pointing system / Illuminates the keyboard to improv	s-to-Select," I touch pad bel	nternet Scroll Bar13 ow keyboard / Tap	3, magnify		InterVideo WinDVD (combo model) Downloadable IBM Director Agent Software Delivery Assistant
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	14.1" models (WxDxH): 12.4" x 10 with optical drive and battery: 6.0 lt Color: black; All: Acrylonitrile-Bu Lithium Ion 6-cell / intelligent / sup Celeron models: up to 3.5 hr; Pen	(2.7kg) tadiene-Styre ports unique 2i	ne (ABS) plastic nd battery in Ultraba	ay Enhand	ced	System Migration Assistant Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and
Architecture PC Card Std slots Ports	Intel 855GME chipset / 82855GM 82801DBM ICH4-M I/O Controller Low Pin Count [LPC] interface, US and 1394 controller, Mini PCI, exte PC87392 Super I/O for parallel, inf One Type I, one Type II, or one T Two USB (Version 2.0) / parallel / RJ-11 (modem) / RJ-45 (ethernet	Hub (ATA-100 B) / PCI bus 2. rnal expansior rared, [docking /pe III / CardBi external monit	EIDE, PCI bus, eth 2 32-bit, 33MHz (T 1) / LPC bus 33MHz 1-based ports]) us 32-bit / PCMCIA tor (DB-15) / infrare	nernet MA I® PCI451 z (security A 2.1 / inte ed (4Mbp	0 CardBus chip; egrated door	Lotus Notes® Stand-alone Client
Video out	S-video out port (TV out) / one 4-p	in industry sta	ndard connector			
IEEE 1394 Wireless antenna Mini PCI Intel 11b/g³² CDC Modem	None UltraConnect™ Antenna built into t One Mini PCI type III slot (Commu 11b/g Wi-Fi³² wireless⁴, Mini PCI, I One Communications Daughter C 56K° V.90 (V.92-designed²³) mode	nications Bay) ntel PRO/Wire ard (CDC) socl) / customer upgrad less 2200BG, Intel ket (used by moder	dable 82532 ch	ipset	ThinkPad notebooks implement IBM ThinkVantage™ technologies and design; visit ibm.com /thinkvantage Universal 72 watt AC adapter Asset ID™. ³⁴ (system-specific info in
Bluetooth Ethernet Audio support	None 10/100 ethernet on planar / Intel 82 Soft audio / ICH AC97 controller / stereo speakers / 1 watt / volume	DirectSound® up, down, mut	süpport / AD1981E e buttons / internal	3 AC97 co micropho	odec/	chip accessed over network) PC 2001 and PXE 2.0-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant
Security Security chip	microphone input jack (3.5 mm) / Power-on password / hard disk pa IBM Embedded Security Subsy authentication / local file encryptic	ssword / supe stem 2.0 ³³ / ha n / enhances \	ervisor pasśword / s urdware key storage VPN security ¹⁶ / TC	secúrity k e / multi-fa G-compl	actor iant	ENERGY STAR®-compliant IBM ImageUltra™ Services available International Warranty Service ¹⁷ 24 hour x 7 day ¹⁸ toll-free warranty
Limited warranty ¹²	excluding holidays, next business	day response t		Fri covera		support during the warranty ¹² via 800-IBM-SERV (426-7378)
256 MB PC2700 512 MB PC2700 1GB PC2700 DC Second HDD Ad ThinkPad DVD-F CD-RW/DVD Co Multi-Burner Plus	ROM Ultrabay Slim Drive 73P3270 mbo Ultrabay Enhanced 73P3275 s Ultrabay Enhanced Drive73P3312 rive™ with PC Card 09N4280	T40/R50 Hig Ultrabay Slin ThinkPad Mu 30GB Hard D 40GB HS Ha 80GB HS Ha Intel PRO/W IBM 11a/b/g	ries Li-Ion Battery 6 th Capacity Li-Ion E n Li-Polymer Batter Ultiple Battery Char Jisk 9.5mm (4200 r urd Disk 9.5mm (540 urd Disk 9.5mm (540 ireless 2200BG Mi Wireless Mini PCI Wireless CardBus	Batt 9-cell ry 3-cell rger II pm) 00 rpm) 00 rpm) ni PCI Adptr II	08K8197 08K8190 22P9040 09N4268 08K9816 09N4273 73P2801 73P4301	Post-warranty annual maintenance agreements at ibm.com/services/us/its/pdf maspspleu.pdf
IBM USB 2.0 Cor IBM USB 2.0 Por IBM USB 2.0 Me IBM Enh Perf Wi	mbo Drive 73P4515 table Multi-Burner Drive 22P9163	ThinkPad 72 ThinkPad 72 IBM M400 Pr IBM C400 Pr	W AC Adapter W AC/DC Combo rojector	Adapter	02K6699 T 22P9010 T 0037A04 T 0039A04 T	ThinkPad Port Replicator II 74P6733 ThinkPad Mini Dock 287810L ThinkPad Dock II 287710L TrackPoint Cap Collection 73P2698 ThinkPad Monitor Stand 2001 22P5265

### Speed Processor 6Hz cache Memory Screen 6B* Optical wireless* modem gray 2883-GNL Celeron* M340 1.5 512KB 256MB 15.0* XGA 30GB Combo Intel 11b/gWi-Fi Modem Extre 2883-GNL Celeron M340 1.5 512KB 256MB 15.0* XGA 30GB Combo Intel 11b/gWi-Fi Modem Extre 2883-GNL Celeron M350 1.3 1MB 256MB 15.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.6 2MB 256MB 15.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.6 2MB 256MB 15.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.6 2MB 256MB 15.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.6 2MB 256MB 15.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.6 2MB 256MB 15.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.6 2MB 256MB 15.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.6 2MB 256MB 15.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi Modem Extre 2883-GNL Pentitum M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi M725 1.0* XGA 30GB Combo ** Intel 11b/gWi-Fi M725 1.0* XGA 30GB C	Personal Systems Reference (PSREF)
2883-GHU Celeron M 340 1.4 512/KB 266MB 15,0" XGA 30GB Combo Intel 11bg Wi-Fi* Modern Extre 2883-GHU Celeron M 340 1.5 512/KB 256MB 15,0" XGA 30GB Combo Intel 11bg Wi-Fi* Modern Extre 2883-GU Celeron M 350 1.3 1MB 265MB 15,0" XGA 30GB Combo Intel 11bg Wi-Fi* Modern Extre 2883-GU Pentium* M 725 1.6 2MB 256MB 16,10" XGA 30GB Combo * Intel 11bg Wi-Fi* Modern Extre 2883-GKU Pentium* M 725 1.6 2MB 256MB 15,0" XGA 30GB Combo * Intel 11bg Wi-Fi* Modern Extre * These small and medium business (SMB) models are part of the IBM US Think Express Program * The Positioning Mainstream performance and features; two-spindle system Intel* Celeron M Processor 300 (1.4GHz), 340 (1.5GHz) or 350 (1.3GHz) with 400MHz system bus or Intel* Pentium M Processor 725 (1.6GHz) with enhanced Intel SpeedStep™ technology* and 400MHz system bus Celeron M 330/340* 15ZHB. Celeron M 330* 140* SIZHB. Celeron M 350* 14MB; Pentium M 725* 2 MB; Alf: ECC 256MB std1 / 2GB max* / PC2700 333MHz DDR1 (DDR-SDRAM) / non-parity / CL2.5 / two 200-pin SO-DIBM sockets / std memory in one socket / one socket available / two 200-pin SO-DIBM sockets / std memory in one socket / one socket available / 9.5mm high bay / supports 2nd disk with optional 'Second HDD Adapter for Ultrabay Silm* / 9.5mm high bay / supports 2nd disk with optional 'Second HDD Adapter for Ultrabay Silm* / 18M Hard Disk Drive Shock Absorber / I8M Active Protection System Display Some: 14.1* (358.1mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x7	Secu- Limited Workhorse (W) rated rity warranty¹² Global (G) Avail shics chip Preload Entry (E) date
Positioning Processor Intel® Celerom M Processor 330 (1.4GHz), 340 (1.5GHz) or 350 (1.3GHz) with 400MHz system Dus or Intel® Processor 330 (1.4GHz), 340 (1.5GHz) or 350 (1.3GHz) with 400MHz system bus or Intel® Processor 730 (1.4GHz), 340 (1.5GHz) or 350 (1.3GHz) with 400MHz system bus or Intel® Processor 730 (1.4GHz), 340 (1.5GHz) or 350 (1.3GHz) with 400MHz system bus or Intel® Processor 730 (1.4GHz), 340 (1.5GHz) or 350 (1.3GHz) with 400MHz system bus or Intel® Processor 730 (1.4GHz), 340 (1.5GHz) or 350 (1.3GHz) with 400MHz system bus or Intel® Processor 730 (1.4GHz) or 300 (1.4G	me™2 Yes 1 yr XP Pro No Dec 04 me 2 Yes 1 yr XP Pro No Sep 04 me 2 Yes 1 yr XP Pro No Sep 04 me 2 Yes 1 yr XP Pro No Sep 04 me 2 Yes 1 yr XP Pro No Sep 04 me 2 Yes 1 yr XP Pro No Sep 04
Intel® Celeron M Processor 330 (1.4GHz), 340 (1.5GHz) or 350 (1.3GHz) with 400MHz system bus or Intel Pentium M Processor 725 (1.6GHz) with enhanced Intel SpeedStep® technology* and 400MHz system bus Celeron M 3307.40 (1.5TeC) (1.6GHz) with enhanced Intel SpeedStep® technology* and 400MHz system bus Celeron M 3307.40 (1.5TeC) (1.6GHz) with enhanced Intel Celeron M 300.40 (1.6GHz) with	e 2883 has a 1 year limited warranty
Diskette drive DVD-ROM/CD-RW /24X/24X/24X/8X** speed / removable from Ultrabay Enhan Combo DVD-ROM/CD-RW /24X/24X/24X/8X** speed / removable from Ultrabay Enhan Oltrabay Enhanced One modular bay for interchangeable devices / Ultrabay Slim-compatible / 12.7 mm high Disk 30GB** (4200 rpm), 9.5mm high / removable and upgradable / 9.5mm high bay / supports 2nd disk with optional Second HDD Adapter for Ultrabay Slim' / BM Hard Disk Drive Shock Absorber / IBM Active Protection System Display Some: 14.1" (38.1 mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 150 nits Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 200 nits Integrated Intel Extreme™ Graphics 2 / in 855GME GMCH / uses main memory (up to 64MB) / 250MHz Graphics external Keyboard 1 support via analog DB-15 connector / up to 1600x1200 at 85Hz / DDC2B External monitor support via analog DB-15 connector / up to 1600x1200 at 85Hz / DDC2B External monitor support via analog DB-15 connector / up to 1600x1200 at 85Hz / DDC2B TrackPoint® pointing device, "Press-to-Select." Internet Scroll Bar³³, magnifying glass UltraNav™ multi-pointing system / fouch pad below keyboard / Tap Zones Illuminates the keyboard to improve visibility in low-light conditions 15.0" models (Wx0xH): 13.1** 1.1" (1.6" x 1.4"+1.58"; 332mm x 269mm x 34-37mm 15.0" models (Wx0xH): 13.1** 1.1" (1.6" x 1.4"+1.58"; 332mm x 269mm x 37-40mm with optical drive and battery: 14.1" models: 6.0 lb (2.7kg): 15.0" models: 6.6 lb (3.0kg) Color: black: Alf. Accylonitrile-Butadiene-Styrene (ABS) plastic Lithium lon 6-cell / intelligent / supports unique 2nd battery in Ultrabay Enhanced Celeron M models: up to 3.4 hr.; Pentium M models: up to 4.0 hr.; Optional High Capacity 9-cell: up to 6.2 hr Architecture Intel 855GME chipset / 82855GME Memory Controller Hub (MCH-M) / 82801BME (144 MI) Controller Hub (ATA-100 EIDE, PCI bus 33MHz (secrity chip: PCI brone) Hub (MCH-M) / B2801BME (144 MI) Controller Hub (ATA-100 EIDE, P	SOFTWARE ¹⁴ Windows XP Professional - Microsoft® Windows® XP Professional ²⁰ \$\(\phi\) Disk-to-Disk Recovery (in hidden protected area)
Some: 15.0" (381.0mm) XGA (1024x768) TFT color / Active Matrix / 200 nits	Preloaded • Access IBM • Access Connections • IBM Rescue and Recovery™ • IBM RecordNOW and Drive Letter Access powered by Sonic products
Integrated Intel Extreme™ Graphics 2 / in 855GME GMCH / uses main memory (up to 64MB) / 250MHz	(combo models)InterVideo WinDVD (combo models)
S7-key / Access IBM button / palm rest / pitch: 19mm; stroke: 2.7mm (std-size keys) TrackPoint® TrackPoint® Touch pad UltraAnv™ multi-pointing device, "Press-to-Select," Internet Scroll Bar¹s," anganifying glass TrackPoint® Illuminates the keyboard to below keyboard / Tap Zones Illuminates the keyboard to improve visibility in low-light conditions Illuminates the keyboard to improve visibility in low-light conditions Illuminates the keyboard to improve visibility in low-light conditions Illuminates (WxDxH): 13.1" x 10.6" x 1.47-1.58"; 332mm x 269mm x 37-40mm with optical drive and battery: 14.1" models: 6.0 lb (2.7kg); 15.0" models: 6.6 lb (3.0kg) Case material Color: black; All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black; All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Color: black; All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Potional High Capacity 9-cell: up to 6.2 hr Architecture Intel 855GME chipset / 82855GME Memory Controller Hub (MCH-M) / 82801DBM ICH4-M I/O Controller Hub (ATA-100 EIDE, PCI bus, ethernet MAC, Low Pin Count (ILPC) interface, USB) / PCI bus 2.2 32-bit, 33MHz (security chip; PC87392 Super I/O for parallel, infrared, [docking-based ports]) PC Card Std slots Ports Type II, or one Type III / CardBus 32-bit / PCMCIA 2.1 / integrated door Two USB (Version 2.0) / parallel / external expansion) / LPC bus 33MHz (security chip; PC87392 Super I/O for parallel, infrared, [docking-based ports]) Video out Security of the first parallel in the total para	 Norton AntiVirus (OÈM edition) PC-Doctor™ ThinkPad Utilities
14.1" models (WxDxH): 12.4" x 10.2" x 1.35-1.46"; 314mm x 260mm x 34-37mm 15.0" models (WxDxH): 13.1" x 10.6" x 1.47-1.58"; 332mm x 269mm x 37-40mm with optical drive and battery: 14.1" models: 6.0 lb (2.7kg); 15.0" models: 6.6 lb (3.0kg) Case material Battery - type Battery - life¹0 Color: black; All: Acrylonitrile-Butadiene-Styrene (ABS) plastic Battery - life¹0 Battery - li	 Adobe Reader IBM Update Connector^{TM,15} Downloadable IBM Director Agent Software Delivery Assistant
82801DBM ICH4-M I/O Controller Hub (ATÁ-100 EIDE, PCI bus, ethernet MAC, Low Pin Count [LPC] interface, USB) / PCI bus 2.2 32-bit, 33MHz (TI® PCI4510 CardBus and 1394 controller, Mini PCI, external expansion) / LPC bus 33MHz (security chip; PC87392 Super I/O for parallel, infrared, [docking-based ports]) PC Card Std slots Ports One Type I, one Type II, or one Type III / CardBus 32-bit / PCMCIA 2.1 / integrated door Two USB (Version 2.0) / parallel / external monitor (DB-15) / infrared (4Mbps) / RJ-11 (modem) / RJ-45 (ethernet) / no keyboard or mouse or serial port Video out IEEE 1394 Video out S-video out port (TV out) / one 4-pin industry standard connector None UltraConnect™ Antenna built into the display cover for optimal wireless signal reception One Mini PCI type III slot (Communications Bay) / customer upgradable 11b/g Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chipset One Communications Daughter Card (CDC) socket (used by modem) / not accessible 56K6 V.90 (V.92-designed²³) modem in CDC / Conexant® chipset None Ethernet Audio support Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / stereo speakers / 1 watt / volume up, down, mute buttons / internal microphone / microphone input jack (3.5 mm) / headphone jack (3.5 mm) / no line in jack Power-on password / hard disk password / supervisor password / security keyhole IBM Embedded Security Subsystem 2.0³³ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security¹6 / TCG-compliant Limited warranty¹² Limited warranty¹² Limited warranty²² Limited warranty²² Limited warranty²² Limited warranty²² Limited warranty²² Limited warranty²² Limited warranty²² Limited warranty²² Limited warranty²² Limited warranty²² Limited warranty²² Limited warranty²² Limited warranty²² Limited warranty²² Limited warranty²² Limited warranty²²	System Migration Assistant Client Security Software (for security chip) License (CD not included) Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Wireless antenna Mini PCI Intel 11b/g³² CDC Modem Bluetooth Bluetooth Ethernet Audio support Audio support Audio support Security Security Security Security Security Similard connect™ Antenna built into the display cover for optimal wireless signal reception One Mini PCI type III slot (Communications Bay) / customer upgradable 11b/g Wi-Fi³² wireless⁴, Mini PCI, Intel PRO/Wireless 2200BG, Intel 82532 chipset One Communications Daughter Card (CDC) socket (used by modem) / not accessible 56K⁵ V.90 (V.92-designed²³) modem in CDC / Conexant® chipset None 10/100 ethernet on planar / Intel 82562EZ chipset (physical layer) / Wake on LAN® Soft audio / ICH AC97 controller / DirectSound® support / AD1981B AC97 codec / stereo speakers / 1 watt / volume up, down, mute buttons / internal microphone / microphone input jack (3.5 mm) / headphone jack (3.5 mm) / no line in jack Power-on password / hard disk password / supervisor password / security keyhole IBM Embedded Security Subsystem 2.0³³ / hardware key storage / multi-factor authentication / local file encryption / enhances VPN security¹¹⁶ / TCG-compliant I imited warranty¹² I war - FasySery™.¹¹ onsite pickun and delivery / service ungrades²² available	ThinkPad notebooks implement IBM ThinkVantage™ technologies and design; visit ibm.com /thinkvantage
Security Security chip Securit	Universal 72 watt AC adapter Asset ID™.34 (system-specific info in chip accessed over network) PC 2001 and PXE 2.0-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant IBM ImageUltra™ Services available International Warranty Service ¹⁷ 24 hour x 7 day¹8 toll-free warranty support during the warranty¹2
Limited warranty ¹² 1 year - EasyServ ^{TM,19} onsite pickup and delivery / service upgrades ²² available	ServicePac ^{®, 22} 1yr IOR 9x5 NBD 30L9188 ServicePac 2 yr IOR 9x5 NBD
	30L9189 ServicePac 3 yr IOR 9x5 NBD
128 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9828 256 MB PC2700 DDR-SDRAM CL2.5 SOD 31P9830 31P9830 31P9820 31P9830 31P9830 31P9830 31P9832 31P98	ServicePac 3 yr IOR 9x5 NBD 30L9195 ServicePac 4 yr IOR 9x5 NBD 30L9194 ServicePac 5 yr IOR 9x5 NBD 30L9196 ServicePac 2 yr P&L P/U Depot 30L9191 ServicePac 3 yr P&L P/U Depot 30L9192 ServicePac 4 yr P&L P/U Depot 69P9195 ServicePac 5 yr P&L P/U Depot 69P9197 Post-warranty annual maintenance agreements at ibm.com/services/its/us/source/

										=					440
	Type-model	Processo	Spee or GHz		Screen	Disk GB ⁸	Optical	Mini PCI Comm Bay wireless	CDC modem	Ethernet on planar	E	Battery		Vorkhors or Global or Entry	∣(Ġ) Avail
× × ×	2388-DAU 2388-DGU 2388-DMU 2388-DVU 2388-DXU 2388-EJU 2388-EKU 2388-ENU	Celeron Celeron Celeron Celeron Pentium [®] Pentium	2.4 2.4 2.4 2.4 4 2.8 4 2.8	256MB 256MB 256MB 256MB	14.1" XGA 14.1" XGA 14.1" XGA 15.0" XGA 15.0" XGA 15.0" XGA 15.0" SXGA+ 15.0" XGA	30GB 40GB 60GB 60GB	CD Combo Combo Combo Combo		Modem	10/100 10/100	12-0 12-0 12-0 12-0 12-0	ell Li-Ion cell Li-Ion cell Li-Ion cell Li-Ion cell Li-Ion cell Li-Ion cell Li-Ion	XP Pro XP Pro XP Pro	Entry No No No No No No No	Jan 2004 Jan 2004 Jan 2004 Jan 2004 Jan 2004 Jan 2004 Jan 2004
	Processor				replacement; thi								SOFT	WARE ¹⁴	4
	Processor L2 cache Memory	11 C 1 tv	tel Per Celeron 28 or 2 vo 200	ntium 4 a r : 128KB ; <i>l</i> 56MB std -pin SO-D	t 2.8 or 3.0GHz ² Pentium 4: 512k / 1GB max ⁷ / P IMM sockets / s	³⁷ with 40 (B ; <i>All:</i> 0 C2100 2 std mem	00MHz s on die (at 266MHz nory in or	ystem bus i processor s _i DDR1 / non-	paritý / CL:	2.5 /		Profess	oft® Windo ional ²⁰	ows® XP	
	Diskette driv CD Combo Disk	2 2	Some: (Some: [OGB ⁸ o	CD-ROM / DVD-ROM or 40GB or	ed, not removab / 24X-10X ⁹ spee //CD-RW / 24X/ 60GB, 4200 rp	ed / fixed 10X/24 m, 9.5m	d, not ren X/8X ²¹ sp im high /	peed / fixed, r removable / s	not remova 9.5mm high	n bay	m	Preloade • Access • Access	d IBM Connecti	,	,
	Display	5	Some: 1 Some: 1	15.0 " (381 15.0 " (381	3.1mm) XGA (10 .0mm) XGA (10 .0mm) SXGA+ o unlatch and op	24x768 (1400x1	s) TFT co 1050) TF	lor / Active M T color / Acti	1atrix / 150	nits		IBM RaIBM Re	pid Resto cordNOV ccess (c	V and IB ombo mo	odels)
	Graphics Graphics ex EasyPivot	ternal E T	nemory xternal hinkPa	(8 to 32N monitor s d EasyPiv	Extreme™ Grap IB with 128MB i upport via analo vot base allows	memory og DB-1: smooth	r; 8 to 641 5 connec positioni	MB with 256N tor/up to 160 ing for a com	MB+) / 133 00x1200 at fortable vie	MHz / DMV 85Hz / DDC wing angle	2B	NortonPC-DocThinkPaIBM Up	AntiVirus ctor™ ad Utilitie	s (OÈM e s	ditíon)
	Keyboard ComfortSlar TrackPoint®	nt T T s	hinkPa rackPo oft dom	id Comfor pint®pointi ne TrackP	BM button / palr tSlant keyboard ng device, "Pre oint cap / ships	l with bu ss-to-Se with cla	ıilt-in incli elect," Int ıssic dom	ine provides ternet Scroll I ne and soft ri	maximum t Bar¹³, mag m TrackPo	yping comi nifying glas	ort	DownloaIBM DirSoftwarSystem	ector Age e Deliver	y Assista	
	Touch pad Dimensions Weight ²	³ 1	2.9" x 1 rith opti	1.1" x 1.5 cal drive a DMU: 8.36	raNav [™] multi-po -2.0"; 329mm x and battery: <i>DAl</i> i lb (3.80kg); <i>D</i> \	282.5mi J: 7.64 l VU/DXU	m x 37.1- b (3.47kg	50.9mm; <i>Vol</i> g); <i>DGU:</i> 8.2- 54 lb (3.88kg)	lume: 4 lite 4 lb (3.75kg			License (CD not in	cluded) te® Miller	nnium and
	Case materi Battery - typ Battery - life	e L	<i>Color:</i> k ithium	olack; <i>All:</i> Ion 6 or 12	Ib (3.90kg); EN Acrylonitrile-Bu 2-cell / intelligen BU/DMU/DVU/D	itadiene	e-Styrene vable	Polycarbon	`	, .		ThinkPad ThinkVar design; v	ntage™te	chnolog	
	Architecture PC Card Sto Ports	8 L P L d slots C F	2801D ow Pin CI bus PC bus one Typ our US	BM ICH4- Count (LF 2.2 32-bit 33MHz (I be I, one T B (Versio	set / 82852GM G M I/O Controller PC) interface, US, 33MHz (TI® PC PC87393F Supe ype II, or one Ty n 2.0) / parallel for keyboard or	Hub (A SB, Firm C11410A er I/O for ype III / / extern	TA-100 É nware Hu CardBus r diskette CardBus al monito	EIDE, PCI bus b) / s controller, N , parallel, PS . 32-bit / PCN or (DB-15) / F	s, ethernet Mini PCI) / /2) MCIA 2.1 / i	MAC, ntegrated o	loor 5	chip ac PC 2001 ACPI 1.0I CIM and I ENERGY IBM Imag	M.34 (syste cessed o and PXE o and 2.0- OMI 2.0-c 'STAR®-(eUltra™ \$	em-spec ver netw 2.0-com -complian complian Services	ific info in york) upliant int t available
	Video out IEEE 1394 Wireless and Mini PCI None 11b Wi-Fi	tenna S C S	lone Some (v One Mir Some: « Some: "	ni PCI type empty / no I1b Wi-Fi	odels): UltraCo III slot (Commo t customer upgi 22 wireless4, Min	unicatio radable i PCI. In	ns Bay) / tersil® Pr	not custome ism 2.5 chips	er upgradal et			Internation 24 hour x suppor 800-IBI	software nal Warr 7 day ¹⁸ t t during tl M-SERV	image a anty Servoll-free vene warra (426-737	ind data vice ¹⁷ varranty nty ¹² via 78)
	11a/b Wi- CDC Modem Bluetooth	C 5	ne Cor	nmunicati	Fi ²⁷ wireless ⁴ , M ons Daughter C esigned ²⁹) mode	ard (CD	C) socke	et (used by m		t accessible)	ServiceP ServiceP	,		30L9188
	Ethernet Audio suppo	ort S m	oft aud	lio / ICH A beaker / 2	n planar / Broad C97 controller / watt / volume u jack (3.5 mm) /	DirectS p, down	Sound® s i, mute bi	ùpport / AD´1 uttons / no in	981B AC97 ternal mic	7 codec/		ServiceP ServiceP	•		30L9195
	Security Security chi	P			ord / hard disk p							ServiceP	ac 5 yr IC	R 9x5 N	
	Limited warr			EasySer	v™,19 onsite pick	up and	delivery					ServiceP	ac 2 yr P	&L P/U [
	256 MB PC	2700 DD 2700 DD	R-SDR R-SDR	AM CL2.5	5 SOD 31P982 5 SOD 31P983 5 SOD 31P983 73P451	0 Thii 2 IBM 5 IBM	nkPad 12 1 H Rate 1 11a/b/g	40 Li-Ion Bat 20W AC Adap Wireless LAI Wireless Ca	oter N PC Card rdBus Ada	22P9 128 09N9 pter 31P9	150 904 101	ServiceP ServiceP	ac 4 yr P	&L P/U [Depot 30L9192 Depot 69P9195
	IBM USB 2 IBM USB 2 IBM 4GB M IBM USB 2 IBM USB 2 IBM Optica	2.0 Portabl 2.0 Portab Microdrive 2.0 Memo 2.0 Memo al 3-Buttol	e Multile 40Gle™ with ry Key ry Key n Trave	B Hard Dri PC Card 256MB 512MB I Wheel M	22P916	Ger G Thin Thin Thin Key D IBM	mPC400 nkPad M nkPad N nkPad Le /board/M I USB Ke	Smart Card I onitor Stand ylon Carrying eather Carrying ouse Conneces by board with ed Performar	Reader/Wr 2001 g Case ng Case ctor UltraNav	iter 31P8 22P5: 10K0: 10K0: 07G3 31P8	901 265 207 209 793		rvicePac om /service mxeu.pdf ranty ann	options a ces/its/us	69P9197 at s/source/
	IBM USB S TrackPoint	Serial Para t Cap Coll	allel Ad ection	apter	22P529 73P269	8 IBM	1 E400 P			0038/		ibm.co masps	om/service pleu.pdf		s/source/

									-		
Type-model Proce	Speed ssor GHz Memory	Screen	Disk GB ⁸	Optical	Mini PCI Comm Bay wireless	CDC modem	Ethernet on planar	Battery	Preload	Small and medium business	Avail
** 2384-31U Celeroi ** 2384-32U Pentiur ** 2384-33U Pentiur ** 2384-89U Pentiur ** 2384-89U Pentiur ** 2384-A9U Pentiur ** 2384-PU Pentiur ** 2384-PU Pentiur ** 2384-AVU Pentiur ** 2384-AVU Pentiur ** 2384-AVU Pentiur ** 2384-AVU Pentiur	n® 2.0 256MB m® 4 2.4 256MB m 4 2.4 256MB m 4 2.2 256MB m 4 2.2 256MB m 4 2.6 256MB m 4 2.6 256MB m 4 2.6 256MB m 4 2.6 256MB		20GB 40GB 40GB 30GB 40GB 40GB 30GB 30GB 40GB 30GB	DVD Combo Combo DVD Combo Combo Combo Combo Combo Combo	11b Wi-Fi ³² None None None 11a/b Wi-Fi ² None None 11a/b Wi-Fi None	Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem Modem	10/100 10/100 10/100 10/100 10/100 10/100 10/100 10/100 10/100 10/100 10/100	12-cell Li-lon 12-cell Li-lon 12-cell Li-lon 12-cell Li-lon 12-cell Li-lon 12-cell Li-lon 12-cell Li-lon 12-cell Li-lon 12-cell Li-lon 12-cell Li-lon	XP Pro XP Pro	Yes Yes Yes Yes Yes Yes Yes	May 2003 May 2003 May 2003 Aug 2003 Oct 2003 Oct 2003 Oct 2003 Oct 2003 Oct 2003 Oct 2003 Oct 2003
Positioning	Powerful desktop	replacement; th	ree-spin	dle syste	m				SOF	TWARE	4
Processor L2 cache Memory Diskette drive	Intel® Celeron 2.0 Intel Pentium 4 a Celeron: 128MB; 256MB std / 1GB two 200-pin SO-D 3.5" 1.44MB / fixe	t 2.2, 2.4, 2.6, c Pentium 4: 512 max ⁷ / PC2100 IIMM sockets /	or 3.0GH KB ; <i>All:</i> 0 266MH std mem	z ³⁷ with 4 on die (at lz DDR1 (nory in on	00MHz syster t processor sp (DDR-SDRAM	eed) / ECC 1) / non-pa	rity / CL2.	- Micros Profes ⇒Disk-to	rs XP Pro soft® Wind sional ²⁰ o-Disk Re	ofessiona dows® XP	I
DVD Combo Disk Display	Some: DVD-ROI Some: DVD-ROI 20GB ⁸ , 30GB, or - Some: 14.1" (35	M / 24X-8X ⁹ spo M/CD-RW / 24) 40GB / 4200 rpo B.1mm) XGA (1	eed / fixe X/10X/24 m / 9.5m 024x76	ed, not rei 4X/8X ²¹ sp im high / r 8) TFT co	peed / fixed, neemovable / 9. plor / Active Ma	ot removal 5mm high atrix / 150	bay nits	- Acce • Adobe	s IBM ss Conne Reader	ections tore™ PC	
Graphics Graphics external EasyPivot	Some: 15.0" (38 All: one latch Integrated Intel I memory (8 to 32M External monitor s ThinkPad EasyPi	to unlatch and c Extreme™ Gra lB with 128MB upport via anal	open with phics / [memory og DB-1	n one han Direct AG v; 8 to 64N 5 connec	id P / in 852GM MB with 256M tor / up to 1600	GMCH / u B+) / 133N x1200 at 8	ses main MHz / DM\ 35Hz / DD(• IBM R Verita: • InterVi • Nortor • PC-Do	ecordNO s (combo ideo WinI n AntiViru	W and D models) DVD (com s (OEM e	ibo, DVD)
Keyboard ComfortSlant TrackPoint [®] Touch pad	87-key / Access I ThinkPad Comfor TrackPoint® point soft dome TrackP No touch pad (Ult	tSlant keyboard ng device, "Pre oint cap / ships	d with bu ess-to-So with cla	iilt-in incli elect," Int assic dom	ne provides mernet Scroll Base e and soft rim	aximum ty ar ¹³ , magn TrackPoi	ping com	fort ss / • IBM Di • Softwa	adable irector Ag are Delive	nnector™ gent ery Assista on Assista	ant
Dimensions ³ Weight ² Case material Battery - type Battery - life ¹⁰	12.9" x 11.1" x 1.5 with optical drive a Color: black; All Lithium Ion 12-ce 89U: 3.0 hr; 32U/	and battery: <i>34l</i> : Acrylonitrile-B I / intelligent / re	J: 7.9 lb Butadien emovable	(3.6kg); <i>C</i> e-Styrene e	Others: 8.36 to	8.54 lb (3.7	79 to 3.87h	(g) License	(CD not i	ncluded)	nnium and
Architecture PC Card Std slots Ports	Intel 852GM chips 82801DBM ICH4- Low Pin Count (LF PCI bus 2.2 32-bit LPC bus 33MHz (One Type I, one T Four USB (Versio RJ-45 (ethernet)	M I/O Controlle PC) interface, U , 33MHz (TI® PO PC87393F Sup Type II, or one T n 2.0) / parallel	r Hub (A ISB, Firm CI1410A er I/O fo Type III / I / extern	TA-100 É nware Hul CardBus r diskette CardBus al monito	IDE, PCI bus, b) / s controller, Mi , parallel, PS/2 32-bit / PCM or (DB-15) / RJ	ethernet Ń ni PCI) /) CIA 2.1 / ir -11 (mode	MAC, integrated em) /	Asset ID chip a PC 2001 ACPI 1.0 door CIM and IBM Ima	o ^{™,34} (sys ccessed and PXE ob and 2.0 DMI 2.0- geUltra™	over netv E 2.0-com 0-complia compliar	ific info in vork) ipliant int t available
Video out IEEE 1394 Wireless antenna Mini PCI None 11b Wi-Fi ³²	No video out port None Some (wireless m One Mini PCI type Some: empty / no Some: 11b Wi-Fi	e III ślot (Comm ot customer upg 32 wireless4, Mir	iunicatio gradable ni PCI, In	ns Bay) / tersil® Pri	not customer sm 2.5 chipse	upgradab t	le	Internati 24 hour suppo 800-IE	onal War x 7 day ¹⁸ ort during 3M-SER\	e image a ranty Ser toll-free v the warra / (426-73 vr IOR 9x	vice ¹⁷ varranty Inty ¹² via 78)
11a/b Wi-Fi ²⁷ CDC Modem Bluetooth Ethernet Audio support	Some: 11a/b Wi- One Communicat 56K ⁶ V.90 (V.92-d None 10/100 ethernet o Soft audio / ICH A	ions Daughter (esigned ²⁹) mod n planar / Broad	Card (CE lem in Cl dcom® B	OC) socke DC / Ager CM5901 (et (used by mod e® chipset (PHY/MAC) / F	dem) / not PXE / Wak	e on LAN®	Service	Pac 3 yr I	OR 9x5 N OR 9x5 N OR 9x5 N	30L9189 IBD 30L9195
Security Security chip	mono speaker / 2 microphone input Power-on passwo None	watt / volume ι jack (3.5 mm) / ord / hard disk p	up, down / headph password	n, mute bu none jack d / superv	uttons / no inte (3.5 mm) / no	rnal mic / line in jac	k	Service	Pac 5 yr I	OR 9x5 N P&L P/U	30L9194 IBD 30L9196 Depot
Limited warranty ¹² Service options	1 year - EasySer Service upgrades from date of Think	²² provide up to Pad purchase (five year	rs of onsit	e or depot rep y period)	air service	coverage		,	P&L P/U	30L9192
256 MB PC2700 D 512 MB PC2700 D IBM USB Portable IBM USB 2.0 Porta IBM USB 2.0 Porta IBM 4GB Microdri IBM USB 2.0 Mem	able Multi-Burner D able 40GB Hard Dis ve™ with PC Card nory Key 512MB ton ScrollPoint Pro	5 SOD 31P983 5 SOD 31P983 05K927 0rive 22P916 sk 22P719 09N428 22P923	Thinle I I I I I I I I I I I I I I I I I I I	kPad 120 11a/b/g W kPad Mor kPad Nylo kPad Prer board/Mou USB Keyl M400 Pro	DLi-Ion Battery W AC Adapte Wireless CardE nitor Stand 20 nicarying Cae niere Leather (use Connector board with Ult pjector at ibm.com/p	r Bus Adapte 01 se Carrying Ca raNav	22P5 10K0 ase 10K0 07G3 31P8 0037	178 150 101 265 207 209 wamo 7793 950 806 100 100 100 100 100 100 100 100 100 1	Pac 5 yr F ervicePac com/serv omxeu.pc irranty an ents at	P&L P/U [c options a ices/its/u If nual mair ices/its/u	69P9195 Depot 69P9197 at s/source/

⁽G40B) © IBM Corp. November 2003

Type-model Pro	ocessor	Speed GHz		Memory	Screen	Diskette drive	Disk GB ⁸	Optical	Graphics	Mini PCI Comm Bay wireless	Ethernet on planar Batter	G		(G) Ávail			
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Keyboard ComfortSlant TrackPoint®	87-key / A ThinkPad TrackPoir soft dome No touch	Access Comf nt® poin Track pad (L	SIBM FortSlanting of kPoint UltraNa	button / p int keybo device, "I cap / sh av™ mult	palm rest / pard with bu Press-to-Se ips with cla i-pointing s	pitch: 19 ilt-in incl elect," In ssic don system)/	mm; st ine pro ternet s ne and no Thi	roke: 2.7 vides ma Scroll Ba soft rim nkLight™	7mm (std-siz aximum typin ar ¹³ , magnifyi TrackPoint c	e keys) ig comfort ng glass /	Letter Acc products (• InterVided Downloada • IBM Direct	cess power combo mod WinDVD (d ble (all) tor Agent	ed by S dels) combo	Sonic , DVD)			
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PC Card Std slots Ports Video out or in	Four USB	l (Vers	sion 2.	 para 	lel / extern board or m	al monito	or (DB-	15) / RJ-	-11 (modem)	rated door /	Universal 1: PC 2001 an ACPI 1.0b a CIM and DM	d PXE 2.0-c nd 2.0-com II 2.0-comp	compli pliant liant	ant			
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	Graphics Graphics externa EasyPivot	Integrated uses main n al External mo ThinkPad E	Intel Extrements (united supplements) Initial Extra Supplements (united supplements)	eme™ Grap p to 64MB) ort via analo pase allows s	hics 2 / E / 266MHz g DB-15 (smooth p	Direct A z / DMV connec ositioni	GP / ir T tor / up ng for	to 1600) a comfoi	(1200 at 85Hz table viewing	g angle	IBM Update IBM Record Letter Acce products (c) InterVideo V	dNOW and ss powere ombo mod	I IBM E ed by S lels)	onic
	Keyboard ComfortSlant TrackPoint® Touch pad	ThinkPad C TrackPoint®	omfortSla pointing or rackPoint	nt keyboard device, "Pres cap / ships	with built ss-to-Sele with class	:-in incli ect," Int sic dom	ne pro ernet s ne and	vides ma Scroll Ba soft rim	mm (std-size aximum typin r ¹³ , magnifyir TrackPoint c	g comfort ng glass /	 Downloadab IBM Directo Software Do System Mig License (CD 	r Àgent elivery Ass ration Ass	istant	
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	Limited warranty 128 MB PC2700 256 MB PC2700 512 MB PC2700 D 40GB PC2700 D 40GB HS Hard 1BM 4GB Micro 1BM USB PORTA 1BM USB 2.0 CO 1BM USB 2.0 M 1BM USB 2.	O DDR-SDRAI O DDR-SDRAI O DDR-SDRAI O DDR-SDRAI O DR-SDRAI DDR-SDRAI DISK 9.5mm (5 Orive with Poeric Keypad able Diskette D ortable Multi-B lemory Key 51 cal Wheel Mou Button ScrollPe icroSaver® Sec GC83 EDGE	M CL2.5 S M CL2.5 S M CL2.5 S CL2.5 SOI 5400 rpm) 5400 rpm) C Card Drive urner Driv 2MB se bint Pro M curity Cabl PC Card	GOD 31P98: GOD 31P98: GOD 31P98: OS 31P98: OS 31P98: OS 31P98: OS 31P98: OS 31P98: OS 31P97: OS 40P90: OS 40P90	28 Thinl 30 Thinl 32 Thinl 34 IBM 16 Gem 73 Thinl 80 IBM 25 Thinl 76 Thinl 15 Thinl 15 IBM 30 IBM 30 IBM 30 IBM 30 IBM 31 IBM 32 IBM	kPad G kPad M kPad 1 11a/b/c hPC400 kPad M Flat Pa kPad C kPad C USB K USB K USB T USB T Enhan M400 F E400 P	641 Li-l fultiple 20W A g Wirel O Smar flonitor narrying arrying arrying arrying eyboar ravel K ced Pe Project	on Batte, Battery C Adapt ess Card t Card R Stand 2 eakers (Case - E Case - E Case - L d with U (eyboard rforman or	ry 12-cell Charger II er dBus Adapter eader/Writer 001 black) Expander 3ackPack eather	08K8178 22P9040 22P9150 31P9101 31P8901 22P5265 09N4175 73P3597 73P3599 73P3600 31P8950 av 31P9450 ord 73P2620 0037A04 0038A04	ServicePac 5 ServicePac 2 ServicePac 3 ServicePac 4 ServicePac 5 Post-warrant agreements a ibm.com/s maspsplet	yr IOR 9x yr IOR 9x yr IOR 9x yr P&L P/ yr P&L P/ yr P&L P/ yr P&L P/ yannual matt services/us	30 5 NBD 30 5 NBD 30 /U Dep 30 /U Dep 69 U Dep 69 aainten s/its/po	L9195 L9194 L9196 oot L9191 oot L9192 oot P9195 ot P9197 ance

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	Graphics Graphics external EasyPivot	NVIDIA Externa ThinkPa	® GeFo I monito ad Easy	orce™ or sup ⁄Pivot	FX Go port via base a	5 200 / Na analog E allows sm	/34M / / B-15 co both pos	AGP 4X innector sitioning	up to 204 for a comf	ortable viewing	/ DDCŹB angle	(combo, D	rdNOW and wered by So VD-RW mod	Drive onic p dels)	
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	128 MB PC2700 256 MB PC2700	DDR-SE	DRAM (CL2.5	SOD	31P9828	ThinkF	Pad G41	Li-Ion Bat	tery 12-cell y Charger II	08K8178 22P9040	ServicePac	•	30 NBD	L9194
	512MB PC2700 1GB PC2700 DE	DDR-SE DR-SDR	ORAM (AM CL2	CL2.5 2.5 SC	SOD		ThinkF IBM 11	Pad 120\ 1a/b/g W	Ŵ AC Ada∣	pter ardBus Adapter	22P9150 31P9101 22P5265	ServicePac ServicePac	•	J Dep 30	ot L9191
	40GB HS Hard D 80GB HS Hard D IBM USB Portab IBM USB 2.0 Co	Disk 9.5m ole Diske	ım (540 tte Driv	00 rpm	n)	09N4273 05K9276 73P4515	IBM FI ThinkF	at Pane Pad Carr	Speakers ing Case		09N4175 73P3597 73P3599	ServicePac	•	3Ò J Dep	L9192
	IBM USB 2.0 Por IBM USB 2.0 Me IBM USB Optica IBM Optical 3-Bu Kensington® Mic	rtable Mu emory Ke Il Wheel I utton Scr eroSaver	ılti-Burr y 512N Mouse ollPoin Securi	/IB t Pro I ity Cal	ive Mouse ble	22P9163 22P9230 06P4069 31P8700 73P2582	ThinkF IBM E IBM U IBM E IBM M	Pad Carr nh Perf \ SB Trav nhanced 400 Pro	ving Case Vireless K el Keyboa l Performa ector	- Leather (eybd and Mous rd with UltraNav Ince USB Keybro	73P3600 e 73P4067 / 31P9490 d 73P2620 0037A04	ServicePac Post-warrar agreements ibm.com	ity annual ma	J Depo 69 ainten	ot P9197 ance
	SonyEricsson® (GC83 ED	GE PC	Card	. t	26K3393				n/pc/us/accesso	ories	maspsple			

Type-model Pro	Speed L2 ocessor GHz cache	Memory Screen	Diskette Disk		Graphics	Mini PCI Comm Bay wireless	
2886-23U Celero 2886-2VU Celero 2886-2WUCelero 2886-3TU Pentiu 2886-5TU Pentiu 2886-79U Pentiu 2886-92U Pentiu 2886-93U Pentiu	on®D 320 2.40 256K on D 320 2.40 256K on D 320 2.40 256K on D 320 2.40 256K on D 320 2.40 256K on D 325 2.53 256K um® 4 532 3.06 1MB um 4 538 3.2 1MB um 4 538 3.2 1MB um 4 538 3.2 1MB	256MB 14.1" XGA 256MB 14.1" XGA 256MB 14.1" XGA 256MB 15.0" XGA 256MB 15.0" XGA 512MB 15.0" SXGA 512MB 15.0" SXGA 256MB 15.0" SXGA 256MB 15.0" SXGA	No 30GE No 30GE No 30GE No 30GE Yes 40GE + No 80 <i>HS</i> + No 40 <i>HS</i> + No 40 <i>HS</i>	B DVD B Combo B Combo Combo DVD±RW Combo Combo	Go5200 64ME Go5200 64ME	None None None IBM 11b/g IBM 11b/g IBM 11b/g IBM 11b/g IBM 11b/g IBM 11b/g	10/100 6-c XP Pro No Oct 04 Gigabit 12-c XP Pro No Oct 04 Gigabit 12-c XP Pro No Oct 04 Gigabit 12-c XP Pro No Oct 04
Positioning	Powerful desktop rep						SOFTWARE ¹⁴
Processor ³⁷ L2 cache Memory	Intel® Celeron D Pro Mobile Intel Pentium enhanced Intel Speed Celeron: 256KB; Per 256 or 512MB std / 2 two 200-pin SO-DIMI	4 Processor 532 (3 IStep™ technology ¹ tium 4: 1MB; All: on GB max ⁷ / PC2700 Al sockets / std mem	3.06GHz), 53 , Hyper-Thre die (at proce 333MHz DDI nory in one so	8 (3.2GHz) ading techr ssor speed R1 / non-pa ocket / one	, or 548 (3.33G) lology, and 533) / ECC rity / CL2.5 /	Hz) with MHz bus e	Windows XP Pro models - Microsoft® Windows® XP Professional²® (Service Pack 2) ⇒ Disk-to-Disk Recovery (in hidden protected area)
Diskette drive CD DVD Combo DVD±RW Disk	Some: 3.5" 1.44MB Some: CD-ROM/24 Some: DVD-ROM/2 Some: DVD-ROM/C Some: DVD and CD 30GB8 (4200 rpm), 40 9.5mm high/removal	X-10X ⁹ speed / fixed 4X-8X ⁹ speed / fixed D-RW / 24X/10X/24 burner / writes to + 1 GB (4200 rpm), 400 ble / 9.5mm high bay	d, not removad, not removad, not remov X/8X ²¹ speed and - formats 3B HS (5400	able / 12.7m able / 12.7m d / fixed, not s / Multi-Bur rpm), or 80	nm high removable / 12 ner Plus / not r GB HS (5400 r	2.7mm emovable pm) /	Preloaded • IBM Rescue and Recovery™ • Access IBM • Access Connections • Norton AntiVirus (OEM edition) • PC-Doctor™ • ThinkPad Utilities • Adde Bender
Display	Some: 14.1" (358.1n Some: 15.0" (381.0n Some: 15.0" (381.0n All: one latch to un	ım) XGA (1024x76 8	s) TFT color / (050) TFT co	Active Mat	rix / 150 nits		 Adobe Reader IBM Update Connector^{TM,15} IBM RecordNOW and Drive Letter Access powered by Sonic products (combo, DVD-RW models)
Graphics EasyPivot	Some: Integrated In uses main me Some: NVIDIA® GEF ThinkPad EasyPivot	mory (up to 64MB) orce™ FX Go5200	/ 266MHz / [/ NV34M / A	OMVT GP 4X / 64	or 128MB mem	nory	InterVideo WinDVD (combo, DVD, DVD±RW models) InterVideo WinDVD Creator (DVD±RW models)
Keyboard ComfortSlant TrackPoint®	87-key / Access IBM ThinkPad ComfortSla TrackPoint® pointing soft dome TrackPoin No touch pad (UltraN	nt keyboard with bu device, "Press-to-So cap / ships with cla	ilt-in incline p elect," Intern essic dome a	orovides ma et Scroll Ba nd soft rim	ximum typing o r ¹³ , magnifying FrackPoint cap	comfort glass /	 IBM Simple Backup (DVD±RW) Downloadable IBM Director Agent Software Delivery Assistant System Migration Assistant
Dimensions ³ Weight ² Case material Battery - type Battery - life	12.9" x 11.1" x 1.5-2.0 with optical drive and <i>Color:</i> black; <i>All:</i> Ac Lithium Ion 6-cell or 1 Not published	battery: <i>6-cell:</i> up to ylonitrile-Butadiene	7.71 lb (3.5k -Styrene/Po	g); 12-cell:	up to 7.67 lb (3.	5 kg)	License (CD not included) - Lotus® SmartSuite® Millennium and Lotus Notes® Stand-alone Client
Architecture	Intel 852GME chipse 82801DBM ICH4-M I/ Low Pin Count (LPC)	O Controller Hub (A interface, USB, Firm	TA-100 EIDE nware Hub) /	, PCI bus, e	thernet MAC,		Supports IBM ThinkVantage™ technologies; visit ibm.com /thinkvantage
Ports	PCI bus 2.2 32-bit, 33 LPC bus 33MHz (PC8 Two Type I, two Type Four USB (Version 2 RJ-45 (ethernet) / PS	7391 Super I/O for II, or one Type III / 0) / parallel / extern 2 (for keyboard or n	diskette], par CardBus 32- al monitor (D nouse) / no se	rallel, PS/2) bit / PCMCl B-15) / RJ- erial or infra	A 2.1 / integrat 11 (modem) / red	ed door	Universal 120 watt AC adapter PC 2001 and PXE 2.0-compliant ACPI 1.0b and 2.0-compliant CIM and DMI 2.0-compliant ENERGY STAR®-compliant
Wireless antenna Mini PCI None IBM 11b/g ³² CDC	One Mini PCI type III Some: empty / not cu Some: IBM 11b/g Wi One Communications	slot (Communicatio stomer upgradable Fi ³² wireless ⁴ , Mini F Daughter Card (CD	ns Bay) / not PCI, Atheros [†] PC) socket (u:	customer u MAR5004G sed by mod	pgradable chipset	-:1-1-	IBM ImageUltra™ Services available International Warranty Service¹ 24 hour x 7 day¹8 toll-free warranty support during the warranty¹ ServicePac®. 22 1yr IOR 9x5 NBD
Modem Ethernet Audio support	56K ⁶ V.90 (V.92-designosis) Some: 10/100 ethernosis Some: Gigabit ethernosis Soft audio / ICH AC9	ned ²⁹) modem in CI et on planar / Broad net on planar / Broad 7 controller / DirectS	DC / Conexar com® BCM59 lcom® BCM5 Sound® supp	nt® chipset 901 (PHY/M 705M (PHY ort / AD907	AC) / Wake on /MAC) / Wake o 64 AC97 codeo	LAN® on LAN ; /	30L9188 ServicePac 2 yr IOR 9x5 NBD 30L9189 ServicePac 3 yr IOR 9x5 NBD
Security Security chip	mono speaker / 2 wa microphone input jac Power-on password / None	(3.5 mm) / headph	one jack (3.5	5 mm) / no l	ne in jack	2 /	30L9195 ServicePac 4 yr IOR 9x5 NBD 30L9194 ServicePac 5 yr IOR 9x5 NBD
Limited warranty ¹⁷	² 1 year - EasyServ™,	onsite pickup and	delivery / ser	vice upgrad	es ²² available		30L9196 ServicePac 2 yr P&L P/U Depot
256 MB PC2700 512 MB PC2700	DDR-SDRAM CL2.5 DDR-SDRAM CL2.5 DDR-SDRAM CL2.5	SOD 31P9830 Th SOD 31P9832 Th	inkPad G41 inkPad Multi inkPad 120V	ple Battery V AC Adapte	Ćharger II er	22P9150	30L9191 ServicePac 3 yr P&L P/U Depot 30L9192
30GB Hard Disk	DR-SDRAM CL2.5 SO (9.5mm (4200 rpm) Disk 9.5mm (5400 rpm)	09N4268 Th	vi 11a/b/g vvi inkPad Moni inkPad Carry	tor Stand 20		22P5265	ServicePac 4 yr P&L P/U Depot 69P9195 ServicePac 5 yr P&L P/U Depot
80GB HS Hard DIBM USB Portable IBM USB 2.0 Color IBM USB 2.0 Portable IB	Disk 9.5mm (5400 rpm) ble Diskette Drive	09N4273 IBI 05K9276 IBI 73P4515 IBI re 22P9163 IBI	M USB Keyb M USB Trave M Enhanced M M400 Proje	oard with U el Keyboard Performand ector		31P8950 31P9490 73P2620 0037A04	Post-warranty annual maintenance agreements at ibm.com/services/us/its/pdf/ maspspleu.pdf

Type-model Pro	Speed L2 ocessor GHz cache M	lemory Screen	Diskette Disk drive GB ⁸	Optical (C	omm Bay	thernet on planar Battery P		on Avail
2882-2TU Celero 2882-3TU Celero 2882-4UU Celero 2882-ASU Celero 2882-ASU Pentiu • The	on®D 320 2.40 256K 2 on D 325 2.53 256K 2 on D 330 2.66 256K 2 on D 335 2.80 256K 2 um® 4 532 3.06 1MB 2 2882 has an EasyServ	56MB 14.1" XG 56MB 14.1" XG 56MB 14.1" XG 56MB 14.1" XG 56MB 15.0" XG 7 ^{TM.19} onsite pic	A Yes 30GB A Yes 30GB A Yes 30GB A Yes 30GB A No 40 <i>HS</i> kup and delive	CD Ext CD Ext CD Ext CD Ext CD Ext COmbo Gos	reme™ 2 III reme 2 III reme 2 III reme 2 III 5200 64MB II iited warrant	BM 11b/g ³² BM 11b/g BM 11b/g BM 11b/g BM 11b/g	.10/100 12-cell X 10/100 12-cell X 10/100 12-cell X 10/100 12-cell X Gigabit 12-cell X	P Pro No P Pro No P Pro No P Pro Yes P Pro No	Oct 04 Oct 04 Oct 04 Jan 05 Oct 04
schoo This r	e educational models of ols organized and opera model for education is fo nodel or models for edu	ited exclusively or sale direct fro	for educational m IBM or throu	purposes fo gh an Author	r use by quali ized Education	ified studer on Reseller	its and teachers.	dited	
Positioning Processor ³⁷	Powerful desktop replaintel® Celeron D Proc 335 (2.80GHz) with 53 Mobile Intel Pentium technology¹, Hyper-Th	essor 320 (2.40 3MHz system bi 4 Processor 53	GHz), 325 (2.5 us or 2 (3.06GHz) wit	3GHz) , 330 (th enhanced	2.66GHz) , or Intel SpeedS	,	Windows XP P - Microsoft® Windows Professional	ndows® XP (Service Pac	k 2)
L2 cache Memory	Celeron: 256KB; Pent 256MB std / 2GB max two 200-pin SO-DIMM	ium 4: 1MB ; <i>All:</i> ⁷ / PC2700 3331	on die (at proc MHz DDR1 / no	essor speed) on-parity / CL	/ ECC 2.5 /	ble	♦ Disk-to-Disk F (in hidden prof Preloaded		
Diskette drive CD Combo Disk	Some: 3.5" 1.44MB / Some: CD-ROM / 24> Some: DVD-ROM/CD 30GB* (4200 rpm) or 4	(-10X ⁹ speed / fi)-RW / 24X/10X/ 0GB HS (5400 r	xed, not remov 24X/8X ²¹ spee pm), 9.5mm hiç	able / 12.7mi d / fixed, not gh / removab	removable / 1 le / 9.5mm hig	12.7mm gh bay	ASU only: Ed Vital Source T vitalsource KE Personal Ports	echnologies® EY™ and able library™	:
Display		m) XGA (1024x latch and open v	768) TFT color vith one hand	/ Active Matr	ix / 150 nits		IBM Rescue aAccess IBMAccess ConneNorton AntiVi	ections	
Graphics EasyPivot	Some: Integrated Int uses main mer Some: NVIDIA® GEFO ThinkPad EasyPivot b	mory (up to 64M orce™ FX Go52	B) / 266MHz / I 00 / NV34M / A	DMVT .GP 4X / 350	MHz / 64MB	memory	 PC-Doctor™ ThinkPad Utili Adobe Reade 	ities r	,
Keyboard ComfortSlant TrackPoint®	87-key / Access IBM b ThinkPad ComfortSlar TrackPoint® pointing d soft dome TrackPoint	outton / palm res nt keyboard with evice, "Press-to cap / ships with	t / pitch: 19mm built-in incline -Select," Intern classic dome a	; stroke: 2.7r provides ma: let Scroll Bar and soft rim T	mm (std-size kimum typing 13, magnifying	keys) comfort g glass /	IBM Update C IBM RecordN Letter Access products (con InterVideo Wii	OW and IBM powered by hobo model)	Sonic
Touch pad Dimensions³ Weight² Case material Battery - type Battery - life	No touch pad (UltraNa 12.9" x 11.1" x 1.5-2.0' with optical drive and b Color: black; All: Acry Lithium Ion 12-cell / int Not published	; 329mm x 282.5 pattery: <i>12-cell:</i> v vlonitrile-Butadie	5mm x 37.1-50. up to 8.15 lb (3. ene-Styrene/Po	9mm; <i>Volum</i> 7kg)		astic	 Downloadable IBM Director A Software Delii System Migra License (CD no Lotus® Smarts 	very Assistant tion Assistant t included)	
Architecture	Intel 852GME chipset 82801DBM ICH4-M I/C Low Pin Count (LPC) in PCI bus 2.2 32-bit, 33N LPC bus 33MHz (PC8' Two Type I, two Type	D Controller Hub nterface, USB, F MHz (TI® PCI152 7391 Super I/O f	(ATA-100 EIĎĒ ïrmware Hub) / 0 CardBus con or [diskette], pa	E, PCI bus, et troller, Mini F trallel, PS/2)	hernet MAC, PCI) /		Lotus Notes®		
Ports Video out or in	Four USB (Version 2.6 RJ-45 (ethernet) / PS/2 None) / parallel / extended 	ernal monitor ([DB-15) / RJ-1	1 (modem) /		ThinkPad notek ThinkVantage™ design; visit ibn	1 technologies	and
IEEE 1394	None UltraConnect™ Antenr One Mini PCI type III s IBM 11b/g Wi-Fi³² wire One Communications 56K ⁶ V.90 (V.92-desig <i>Some</i> : 10/100 etherne <i>Some</i> : Gigabit ethern Soft audio / ICH AC97 mono speaker / 2 watt	lot (Communica less ⁴ , Mini PCI, A Daughter Card (ned ²⁹) modem in et on planar / Bro et on planar / Bro controller / Dire / volume up, do	ttionś Bay) / no Atheros™ AR50 CDC) socket (u CDC / Conexa adcom® BCM5 oadcom® BCM5 ctSound® supp wn, mute butto	04G chipset ised by mode nt® chipset 901 (PHY/M/ 5705M (PHY/ ort / AD9076 ns / no intern	em) / not acce AC) / Wake or MAC) / Wake 4 AC97 code al microphor	n LAN® on LAN ec /	Universal 120 w PC 2001 and PO ACPI 1.0b and 2 CIM and DMI 2. ENERGY STAF IBM ImageUltra International Wa 24 hour x 7 day support durin	vatt AC adapto XE 2.0-compliant 2.0-compliant 0-compliant ™ Services a arranty Servic ¹¹ toll-free wa g the warranty	er iant vailable e ¹⁷ rranty
Security Security chip	microphone input jack Power-on password / None	hard disk passw	ord / supervisc	or password /	security key		ServicePac®, 22	OR 9x5 NBI	30L9190 D
	3 years/1 yr battery - DDR-SDRAM CL2.5 S0	-	nsite pickup and ThinkPad G41 l	•		es ²² avail 08K8178	ServicePac 4 yı	IOR 9x5 NBI	30L9197 D 39P9198
256 MB PC2700 512 MB PC2700	DDR-SDRAM CL2.5 SO DDR-SDRAM CL2.5 SO DR-SDRAM CL2.5 SOD	OD 31P9830 1 OD 31P9832 1	ΓhinkPad Multi ΓhinkPad 120V BM 11a/b/g Wi	ple Battery Ć √AC Adapteı	harger II ·	22P9040 22P9150 31P9101	ServicePac 5 yı ServicePac 4 yı	r IOR 9x5 NBI 9	D 89P9200
80GB HS Hard D IBM USB Portable		09N4273 05K9276	ΓhinkPad Carry ΓhinkPad Carry ΓhinkPad Carry	ing Case - Ba ing Case - Le	ickPack ather	73P3597 73P3599 73P3600	ServicePac 5 yı	ë P&L P/U Der ·	69P9199
IBM USB 2.0 Me IBM USB 2.0 Me	table Multi-Burner Drive mory Key 256MB mory Key 512MB	22P9163 22P9228 22P9230 1	BM Enh Perf V BM USB Trave BM Enhanced BM M400 Proje	el Keyboard v Performance ector	vith UltraNav	31P9490 d 73P2620 0037A04	wamomxeu.	rvices/its/us/s odf	
	Collection roSaver® Security Cable GC83 EDGE PC Card	73P2582	BM E400 Proje BM C400 Proje Other options a	ector	c/us/accesso	0038A04 0039A04 ories	agreements at	rvices/its/us/s	

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1	ype-model Pro	cessor	Speed		Memory	Scree			Disk GB ⁸	Optical	Graphics	Mini PCI Comm Bay wireless	etherne on planar	Battery	G	rkhorse (W) Blobal (G) Avail Entry (E) date
	2881-22U Celerc 2881-2AU Celerc 2881-2BU Celerc 2881-2BU Celerc 2881-32U Celerc 2881-32U Celerc 2881-3BU Celerc 2881-3BU Celerc 2881-42U Celerc 2881-47U Celerc 2881-57U Pentic	on® D 320 on D 320 on D 320 on D 320 on D 320 on D 325 on D 325 on D 330 on D 330	2.40 2.40 2.40 2.40 2.53 2.53 2.53 2.66 2.66	256K 256K 256K 256K 256K 256K 256K 256K	128MB 256MB 128MB 256MB 128MB 128MB 128MB 256MB 128MB 128MB	14.1" X 14.1" X 14.1" X 14.1" X 15.0" X 14.1" X 14.1" X 14.1" X 14.1" X 14.1" X	GA GA GA GA GA GA GA	No No Yes Yes No Yes Yes No Yes Yes	30GB 30GB 30GB 30GB 30GB 30GB	CD CD DVD CD CD CD CD CD CD CD	Extreme™ 2 Extreme 2 Extreme 2 Extreme 2 Extreme 2 Extreme 2 Extreme 2 Extreme 2 Extreme 2 Extreme 2 Extreme 2 Extreme 2 Extreme 2 Extreme 2		10/100 10/100 10/100 10/100 10/100 10/100 10/100 10/100 10/100	6-cell 6-cell 6-cell 6-cell 6-cell 6-cell 6-cell 6-cell 6-cell	XP Home XP Home XP Pro XP Home XP Home XP Home XP Home XP Home XP Home	Entry Oct 04 Entry Nov 04 Entry Oct 04 Entry Oct 04 Entry Oct 04 Entry Oct 04 Entry Oct 04 Entry Oct 04 Entry Oct 04 Entry Oct 04 Entry Oct 04 Entry Oct 04 Entry Oct 04
	Positioning Processor ³⁷										rive) or three-s or 330 (2.66G F				SOFTWA	
L N 	.2 cache //emory Diskette drive CD DVD	Mobile technole Celeron 128 or 2 two 200 Some: Some: Some:	z syste Intel P ogy ¹ , H z 256M 256ME -pin S 3.5" 1. CD-R DVD-F	em bus Pentiur Hyper- (B; Pei 3 std / 2 O-DIM 44MB OM / 2 ROM / 2	or n 4 Proce Threadin ntium 4: 12 CGB max M socke / fixed, r 4X-10X ⁹ 24X-8X ⁹	essor 53 g techno IMB; All 7 / PC27 ts / std r not remo speed / speed /	32 (3 blogy on 3 nem vabl	.06GI /, and die (a 333MI ory in le / 12 l, not d, not	Hz) with 533Ml at proce Hz DDI one so7mm hremova	n enhan Hz syste ssor sp R1 / nor ocket / o nigh able / 12	ced Intel Spee em bus eed) / ECC I-parity / CL2.sone socket ava 2.7mm high 2.7mm high	edStep™	- Mi Ho Di (ir Win - Mi Pr	crosoft ^o ome Edi sk-to-D hidden dows X crosoft ofessio	P Home many with the control of the	XP ice Pack 2) ry area) lels P ce Pack 2)
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(Graphics Graphics externa EasyPivot	All: Integra uses ma I Externa	one la ted In ain me I moni	tel Extended the telegraph to the telegr	nlatch ar reme™ (up to 64l port via a	nd open Graphic MB) / 26 analog D	with s 2 / 6MH B-15	one h Dired Iz / Di conr	and ct AGP MVT nector/	/ in 852 up to 16	GME GMCH	; SHz/DDC2B	• Ad • Ad • Nd • Pd • Th	ccess IE ccess Corton Ar C-Docto ninkPad	M onnections ttiVirus (OE r™ Utilities	
(Keyboard ComfortSlant FrackPoint®	ThinkPa TrackPo	ad Cor pint® p	nfortSI ointing	ant keyb device,	oard wit "Press-t	n bui o-Se	ilt-in iı elect,"	ncline p Intern	rovides et Scrol	2.7mm (std-s s maximum typ I Bar ¹³ , magnif rim TrackPoin	oing comfort ying glass /	• IB	erVide	ader te Connect WinDVD (i ble (all)	
[\ (Touch pad Dimensions ³ Veight ² Case material Battery - type	No touc 12.9" x 2 with opt Color: Lithium	h pad 11.1" x ical dr black; Ion 6-	(Ultral) 1.5-2. ive and <i>All:</i> Ad	lav™ mu 0"; 329m I battery:	lti-pointi m x 282 <i>6-cell:</i> u e-Butad	ng s 5mr p to ene	ysten n x 37 7.52	n) / no 7 7.1-50.9 lb (3.4l	hinkLig mm; <i>V</i> (g)		<u> </u>	• IB • So • Sy Lice - Lo	M Direct oftware vistem M ense (Cl otus® Sm	tor Agent Delivery As igration Ass D not includ nartSuite® M	sistant ed) (all) Iillennium and
_	Battery - life Architecture		2GME								er Hub (GMCI			itus Not	es® Stand-a	alone Client
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F	Ports	Four US RJ-45 (SB (Ve	rsion 2 et) / PS	2.0) / para 3/2 (for ke	allel / ex eyboard	erna or m	al moi louse)	nitor (D) / no se	B-15) / erial or i	RJ-11 (moder nfrared	m) /	Univ PC 2	2001 an	20 watt AC d PXE 2.0-	compliant
(E	Vireless antenna Mini PCI None IBM 11b/g ³² CDC Modem Ethernet	One Mir Some: Some: One Co 56K ⁶ V.S 10/100 6	ni PCI empty IBM 17 mmun 90 (V.9 ethern	type III / not c lb/g W ication 92-desi et on p	slot (Co ustomer i-Fi ³² wire s Daught gned ²⁹) r lanar / Bi	mmunic upgrada eless⁴, M ter Card nodem i roadcom	atior ble ini P (CD n CD ® BC	ns Bar CI, A C) so C / C CM59	y) / not theros [™] cket (us onexar 01 (PH	custom AR50 sed by r t® chips Y/MAC	er upgradable 04G chipset nodem) / not a set ı / PXE / Wake	ccessible	CIM ENE IBM Inter 24 h	and DN RGYS Imagel nationa our x 7	al Warranty	oliant oliant ices available Service ¹⁷ ee warranty
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-	imited warranty ¹		- Easy	Serv™	¹⁹ onsite	pickup a	ınd c	delive	ry / ser	rice upg	grades ²² availa	ble			3 yr IOR 9: 4 yr IOR 9:	30L9195
	128 MB PC2700 256 MB PC2700 512 MB PC2700 512 MB PC2700 DI 30 GB Hard Disk 40 GB HS Hard E 80 GB HS Hard E 1BM USB POrtab 1BM USB 2.0 Po 1BM USB 2.0 Me 1BM USB 2.0 Me 1BM Optical 3-Bu TrackPoint Cap Kensington® Mic SonyEricsson® (6	DDR-SE DDR-SE DR-SDR/ 9.5mm (Disk 9.5mm) Disk 9.5mm Disk 9.5mm Disker Muton Driv Trable Muton Tra Collectio ProSaver	DRAM DRAM AM CL 4200 Im (54 Im (54 Itte Dri e e Ilti-Bur y 512 Vvel Wh n Secu	CL2.5 CL2.5 .2.5 SC rpm) 00 rpm ve ner Dri MB neel Mo rity Cal	SOD 31 SOD 31 DD 31 09) 08) 09 09 ve 22 22 ouse 31 73 olle 73	P9830	Thi Thi IBN Ge Thi Thi Thi IBN IBN IBN	nkPa nkPa 111a, mPC nkPa nkPa nkPa 1 USE 1 USE 1 Enh 1 E40 1 C40	d Multi d 120W /b/g Wi 400 Sm d Moni d Carry d Carry d Carry 3 Keyb 3 Trave anced 0 Proje 00 Proje	ble Batt AC Ad reless Control art Car for Stan for Cas for C	CardBus Adap d Reader/Writ	er 31P89 22P52 73P35 73P35 73P36 31P84 Nav 31P94 eybrd 73P26 0038A 0039A	78 40 Sen 50 Sen 97 Sen 99 Sen 90 Sen 90 20 Pos 90 4 agree 94	vicePac vicePac vicePac vicePac vicePac t-warra eements	5 yr IOR 9: 2 yr P&L F 3 yr P&L F 4 yr P&L F 5 yr P&L P nty annual r s at	30L9194 x5 NBD 30L9196 P/U Depot 30L9191 P/U Depot 30L9192 P/U Depot 69P9195 /U Depot 69P9197 maintenance
_	See footnotes for i						- 11	op					''			November 200

Availability: All offers subject to availability. IBM reserves the right to alter product offerings and specifications at any time, without notice. IBM is not responsible for photographic or typographic errors.

Warranty: For a copy of applicable product warranties, write to: Warranty Information, P.O. Box 12195, RTP, NC, 27709, Attn: Dept JDJA/B203. IBM makes no representation or warranty regarding third party products or services.

Footnotes:

- With Intel SpeedStep, processor speed may be reduced to conserve battery power.
- ² Travel weight includes battery and optional travel bezel instead of standard optical drive in Ultrabay bay, if applicable; weight may vary due to vendor components, manufacturing process and options.
- Thinness may vary at certain points on the system.
- Wireless capability: Requires compatible wireless-enabled options sold separately.
- ⁵ TAA: ThinkPad notebook is compliant with the U.S. Federal Government's country-of-origin requirements prescribed in 48 C.F.R. Subpart 25.4; Trade Act Agreement (TAA) model.
- Public network download speeds are limited to 53Kbps. Upload speeds are limited to 31.2Kbps. Compatible phone line and server equipment required. Actual speeds depend on many factors and are often less than the maximum possible.
- Maximum memory and hard disk drive capacity may require the replacement of standard component with largest supported component available.
- B Hard drive: GB = billion bytes, TB = trillion bytes. Accessible capacity may be less; up to 4GB is used in service partition.
- ⁹ CD/DVD drive speeds list maximum rates; rates are variable and are often less than the maximum.

- 10 Battery: These model numbers achieved the Ziff Davis Media Inc.'s Business Winstone 2002 BatteryMark™ Version 1.0, Battery Rundown Time of at least the times shown. This test was performed without independent verification by the VeriTest testing division of Lionbridge Technologies, Inc. ("VeriTest") nor Ziff Davis Media Inc.; neither Ziff Davis Media Inc. nor VeriTest makes any representations or warranties as to these test results. Winstore is a registered trademark and BatteryMark is a trademark of Ziff Davis Publishing Holdings Inc., in the US and other countries. A description of the environment under which the test was performed is available at ibm.com/pc/ ww/thinkpad/batterylife. Battery life (and recharge times) will vary based on many factors including screen brightness, applications, features, power management, battery conditioning and other customer preferences. Refer to ibm.com/pc/support and enter machine type and model number for more information.
- Memory: For ThinkPad models without a separate video card, memory supports both system and video. Accessible system memory may be up to 64MB less than the amount stated, depending on video mode.
- ¹² Limited warranty: Support unrelated to a warranty issue may be subject to additional charges.
- 13 Internet access not included.
- ¹⁴ Included software may differ from its retail version (if available), and may not include user manuals or all program functionality. Software license agreements may apply.
- ¹⁵ Update Connector is available to registered ThinkPad customers during the limited warranty period at no charge. Line charges may apply.
- ¹⁶ IBM Embedded Security Subsystem works with optional VPN software.
- ¹⁷ International Warranty Service is available in any country in which this product is sold and serviced. Service delivery methods and parts availability vary by country, may be different from that in the country of purchase, and are subject to change without notice. Fees and restrictions may apply in some countries.

- ¹⁸ **Telephone support** may be subject to additional charges, even during the limited warranty period. If a machine is listed as having "On-site service for select repairs", this means that onsite service is available only for the replacement of select parts. For all other warranty repairs, IBM will provide the customer a replacement part for customer installation. The parts for which onsite service is available varies by machine, but may include the processor, power supply, heat sink, system board, or base cover. For IBM machines with EasyServ or Courier service, IBM will attempt to diagnose and resolve the problem remotely before sending a courier.
- ¹⁹ Depot repair: The customer may be asked certain diagnostic questions before a courier is sent. Your ThinkPad purchase includes this depot repair service, available in the U.S. during the warranty period.
- ²⁰ Delivered with Windows 2000, Windows XP Professional, or Windows XP Home Edition preloaded and a recovery partition on the hard disk drive.
- For combination drives, maximum possible speeds only are given in the following order: CD write, CD rewrite, CD read, DVD read.
- 22 These services are available for machines normally used for business, professional, or trade purposes, rather than personal, family, or household purposes. Not all machine types and models are covered. Service period begins with the equipment date of purchase. Service must be purchased during the original limited product warranty period. If the machine problem turns out to be a Customer Replaceable Unit (CRU), IBM will express ship the part to you for quick replacement. Onsite 24x7x2-hour service is not available in all locations. For ThinkPad notebooks requiring LCD or other component replacement, IBM may choose to perform service at the depot repair center.

- For ThinkPad X Series, the 32GB, 48GB, and 60GB HDD only supports ThinkPad Dock, UltraBase X2, or X3 UltraBase media slice and requires the ThinkPad Second HDD Adapter for Ultrabay 2000.
- ²⁴ Systems with limited onsite service are designed to be repaired during the applicable warranty period primarily with customer-replaceable parts provided by IBM. IBM will only send a technician onsite to perform a repair if (a) remote telephone diagnosis and/or customer part replacement are unable to resolve the problem, or (b) the part is one of the few designated by IBM for onsite replacement. For a list of onsite replaceable parts, contact IBM. Support unrelated to a warranty issue may be subject to additional charges. IBM onsite repair (IOR), 8 am to 5 pm, Monday through Friday coverage excluding holidays, next business day response time.
- ²⁵ Linux preloaded systems do not support UltraPort connector solutions and S-video-out port that may be included on this machine.
- ²⁶ As defined by ISO/IEC 15412.

- ²⁷ Based on IEEE 802.11a and 802.11b. A customer can not upgrade to a different wireless Mini PCI adapter due to FCC regulations. Security screws prevent removal of this adapter. This wireless LAN product has been designed to permit legal operation world-wide in regions which it is approved. This product has been tested and certified to be interoperable by the Wireless Ethernet Compatibility Alliance and is authorized to carry the Wi-Fi logo.
- ²⁸ **Certain Microsoft software products** included with this computer may use technological measures for copy protection. IN SUCH EVENT, YOU WILL NOT BE ABLE TO USE THE PRODUCT IF YOU DO NOT FULLY COMPLY WITH THE PRODUCT ACTIVATION PROCEDURES. Product activation procedures and Microsoft's privacy policy will be detailed during initial launch of the product, or upon certain reinstallations of the software products or reconfigurations of the computer, and may be completed by Internet or telephone (toll charges may apply).
- Public network download speeds are limited to 53Kbps. Upload speeds are limited to 48Kbps for V.92 modems. Actual speeds depend on many factors and are often less than the maximum possible. V.92 functions and speeds require compatible phone line and server equipment. Check with your telephone and ISP service providers for availability. Requires download of V.92 microcode when available and country approval.
- ³⁰ Measures only maximum data transfer rate, not application performance. Many factors affect application performance.
- 31 Internet access account (not included) and profiling at ibm.com/support required.
- ³² Wireless: based on IEEE 802.11a, 802.11b, and 802.11g respectively. An adapter with 11a/b, 11b/g, or 11a/b/g can communicate on either/any of these listed formats respectively, the actual connection will be based on the access point to which it connects.

- 33 IBM Embedded Security Subsystem requires download of client security software from the Web and requires Internet access, not included.
- ³⁴ Asset ID allows system-specific information to be stored in a chip inside the system; it does not have any radio frequency support.
- Operating system: Level of support varies by operating system. Operating systems not preloaded on the system may not provise full feature functionality. Refer to ibm.com/pc/support and enter your machine type and model number for more information.
- Wireless upgradable allows the system to be wireless-enabled with an optional wireless Mini PCI card. These systems are designed to operate only with wireless LAN Mini PCI options sold by IBM.
- Mobile processors: Power management features reduce processor speed when in battery mode.

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